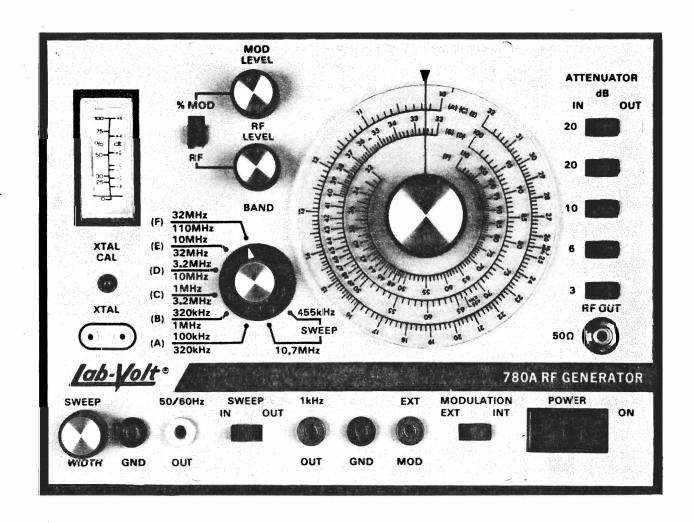


RF GENERATOR INSTRUCTION MANUAL



MODEL 780A/980A

INTRODUCTION

The RF Generator Models 780A/980A are manufactured and tested under strict quality control. If the instrument is within the warranty period and requires repair or adjustment, contact your field representative to obtain instructions for forwarding the model to the nearest authorized Lab-Volt repair station.

If the instrument is beyond the warranty period, and repairs are necessary, it is still recommended that it be returned for service. Special equipment of high accuracy is needed to calibrate this instrument. Test equipment should have accuracies ten times greater than the required accuracy of adjustment. However, if it becomes necessary to replace any of the component parts, only Lab-Volt replacement parts or their equivalent should be used. Order parts through your Lab-Volt field representative.

This manual contains a schematic diagram and an itemized parts list.

This manual contains information for the AA (115V, 50/60Hz) and the AE (230V, 50/60Hz) versions of Model 780A/980A RF Generator. Differences between the two versions are noted.

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WARRANTY

Lab-Volt Systems, Inc. warrants all Lab-Volt equipment against defects in materials and workmanship for a period of one year from the date of installation and/or acceptance by the customer. This warranty covers only the intended use of the equipment and does not cover damage due to alteration, negligent use, or normal wear.

We assume no liability for damage, injury or expense claimed to have been incurred through the installation or use of our products.

Questions concerning this warranty and all requests for repairs should be directed to the Lab-Volt Systems, Inc. field representative in your area.

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RF GENERATOR

MODELS 780A/980A

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SECTION 1

GENERAL DESCRIPTION

The Model 780A and 980A RF Generators are a solid state, fully protected, general purpose RF generator. The frequency coverage and operating characteristics are designed to meet the requirements of engineering laboratories, educational laboratories, production test facilities and consumer product repair shops. It is an ideal instrument for testing AM and FM transmitters and receivers.

The Models 780A and 980A are designed for maximum utilization. The operating frequency range of 100kHz to 110MHz is divided into six switch selected bands plus two sweep frequencies. A calibrated circular dial provides the means of tuning the desired frequency within each band. The continuous wave RF output impedance is a constant 50 ohms over the entire frequency range. Any desired output signal level from 0 to -59db, ±6db, can be established using a five step attenuator and a variable level control. The RF signal from 100kHz to 32MHz can be amplitude modulated from 0 to 100% internally at 1kHz, or externally to 15kHz. A switch selected dual function meter is used to set the RF output level to ±6db in conjunction with the variable level control, and to measure the percent of modulation applied to the signal. The two sweep frequency signals, centered at 455kHz and 10.7MHz and swept at a 50/60Hz rate, provide a convenient source of alignment signals for the IF strips in AM and FM receivers. The sweep signal can be removed from either of these two signals to obtain fixed outputs of 455kHz and 10.7MHz. In addition to these features, the RF Generator contains a crystal oscillator, activated by an external plug-in crystal, with a frequency range of 100kHz to 15MHz. The crystal oscillator can be used in conjunction with a crystal calibrator having a visual (LED) indication of zero beat to calibrate the RF output frequency. For synchronization and test purposes, the 50/60Hz sweep rate signal and the 1kHz modulation signal are also brought out to separate output terminals.

Accessories Available Separately

NOTE: The crystals listed below are in stock, but must be ordered separately. Other crystals with frequencies from 100kHz to 15MHz may be obtained by special order. Order through your local Lab-Volt Representative.

Frequency	Stock Number
100kHz	LU 14587-01
455kHz	LU 14587-02
10.7MHz	LU 14587-03

SECTION 2

SAFETY

Electrical shock is a hazard we all face every time we work in or around sources of electrical power. While it is generally true that knowledge and experience tend to reduce the danger, it should be borne in mind that electrical current does not pause to inquire into one's qualifications before shocking him and even the most sophisticated engineers and technicians will profit by periodically reviewing the following basic safety precepts.

- 1. Avoid using the RF Generator while it is out of its enclosure.
- 2. When connecting leads from the RF Generator to exposed circuits, make sure circuit power is turned off.
- 3. Periodically check your work area for potentially hazardous conditions. Don't let clutter creep up on you. Place a rubber mat or similar insulating material over the floor area in front of your bench. A non-conductive work surface reduces the possibility of shock.
- 4. Beware of broken or cracked insulation on power leads. Don't work with test leads whose insulated probe housings are damaged or missing.

- 5. Make it a point to handle test leads only by their insulated housings.
- 6. When making voltage measurements use one hand only and keep the other hand well away from the test chassis, preferably behind the back or in a pocket.
- 7. Always make it a point to have someone available to shut off power and render first aid in the event of an accident while working on live circuits.
- 8. Above all, bear in mind that a shock, in itself, may be the *least* dangerous of the hazards you face. Even a minor shock can cause such violent muscular reactions that a person could literally hurl himself against walls, work bench corners, racks and similar barriers. The resulting injuries can be far more disabling than the initial shock. It is also highly probable that muscular reaction to shock may force a person into contact with a lethal power source.

SECTION 3 SPECIFICATIONS

Frequency Range	Six Bands: (A) 100kHz to 320kHz (B) 320kHz to 1MHz
	(C) 1MHz to 3.2MHz
	(D) 3.2MHz to 10MHz (E) 10MHz to 32MHz
	(F) 32MHz to 110MHz
Dial Calibration Accuracy	Within ±3% of dial setting.
Attenuation (0db = $0.1V$ rms into 50Ω)	
Fixed	Five step attenuators: 20db, 20db, 10db, 6db, 3db.
Variable	RF level control
RF Output	
Maximum (center band)	Bands (A) through (F): 0.2V rms minimum into 50Ω .
Minimum (center band, 59db fixed and 6db variable attenuation)	Bands (A) through (E): $56.3\mu V$ rms into 50Ω .
Output Impedance	50Ω
Output Flatness (from center band)	Bands (A) through (E): ±3db Band (F): ±6db to 100MHz.
Sweep Output	455kHz center frequency; sweep width variable from approximately 5kHz to 21kHz. 10.7MHz center frequency; sweep width variable from approximately 100kHz to 600kHz.
Modulation (amplitude)	Variable to 100% from 100kHz to 32MHz. a) Internal at 1kHz b) External to 15kHz with input impedance of $8k\Omega$. Requires 2.8V rms max for 100% modulation.
Fixed Frequency Outputs	1kHz adjustable to 2.5V rms at $1k\Omega$ output impedance. 50/60Hz line frequency at 7V rms (fixed).

Crystal Calibrator	Calibration points at fundamental and harmonics of external plug-in crystal; LED zero beat indicator. Accuracy $\pm 0.1\%$ or better.			
Meter				
Modulation	0 to 100%; accuracy $\pm 10\%$ to 75% modulation.			
	-6db to +6db; factory adjusted for 0db (0.1V rms) at 660kHz. Meter and switch attenuators accurate to $\pm 1.5 dB$ of calibrated output up to 32MHz.			
Protection	Front panel input and outputs protected against short circuit conditions. All Lab-Volt equipment is protected against inadvertent connections between terminals.			
Input Power	105/125Vac or 210/250Vac, 50/60Hz, 12W			
Ambient Operating Temperature	0 to 50°C			
Overall Dimensions Without Enclosure	•			
780A	7.00'' high $ imes$ $9.50''$ wide $ imes$ $6.00''$ deep. $9.00''$ high $ imes$ $6.25''$ wide $ imes$ $6.00''$ deep.			

The Model 780A chassis is fabricated from heavy gauge steel, employs welded construction and is finished with a durable, scratch resistant beige paint. It can be housed in the Model 750/751 modular system enclosure or the Model 756 portable enclosure. The Model 980A is similar in construction except for size and finish. It can be housed in the Model 900/901 modular system enclosure or Model 911 portable enclosure.

SECTION 4

OPERATING INSTRUCTIONS

1. OPERATING CONTROLS AND INDICATORS (Refer to Fig. 1)

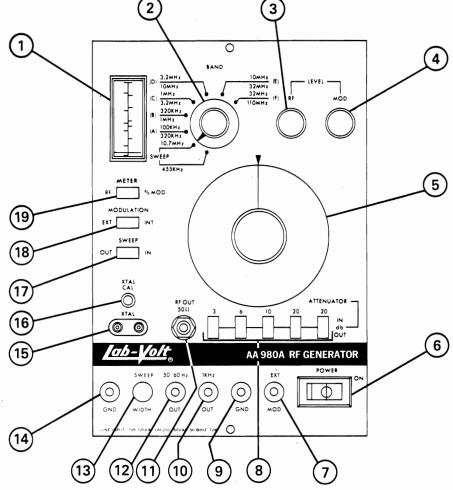
- a) Meter M1 (1). This 100mV, 10 ohm, 3% of full scale meter movement has a split, edge-reading, scale and is used in conjunction with the %MOD/RF switch (2). The left side of the scale is calibrated in increments from 0 to 100% and indicates the percent of amplitude modulation applied to the RF output signal. The right side of the scale is calibrated in increments from -6db to +6db and indicates the level from 0db of the RF output signal when the output is terminated in a 50 ohm load.
- b) BAND switch A1A1S1 (2). The BAND switch selects one of six bands for the desired output frequency and one of two sweep frequency ranges. The legend identifying each band is keyed to the three frequency scales marked on the RF Frequency dial (6); the sweep frequency points are also marked on the dial.
- c) RF LEVEL control A1R1 (3). This control varies the amplitude level of the RF output signal plus or minus 6db from 0db, or the value set on the step ATTENUATOR (7).
- d) MOD LEVEL control R1 (4). This control varies the level of the internal amplitude modulation of the RF carrier from 0 to 100%. It also adjusts the 1kHz output signal available at the 1kHz OUT jack (14) from 0 to approximately 8 volts peak-to-peak.

- e) RF Frequency dial A1C1 (5). The main tuning dial rotates the tuning capacitor and indicates the output frequency. The three frequency scales are keyed to the six frequency bands and two sweep frequencies selected by the BAND switch (5). Thus, if the desired frequency is 500kHz, the BAND switch is set to band B (320kHz-1MHz) and the dial is rotated until 50 on the center scale is positioned over the index.
- f) <u>POWER</u> switch S1 (6). This rocker-type switch connects and disconnects line voltage to the power supply to turn the unit on and off. Switch illuminates to indicate that primary line voltage is applied to the RF generator.
- g) EXT MOD jack J1 (7). External modulation signals are applied to this red banana jack, which is connected into the modulation circuit when the MODULATION switch (11) is in EXT position.
- h) ATTENUATOR db switches A2S1-A2S5 (8). These five slide switches introduce various levels of fixed attenuation from 0 to 59db in series with the RF output signal. The five individual steps are: 20, 20, 10, 6 and 3db. The IN positions add attenuation and the OUT positions remove attenuation.
- i) GND jack J2 (9). Black banana jack which serves as a ground lead connection for the 1KHz OUT jack (10) and the EXT MOD jack (7).
- j) 1 KHz OUT jack J3 (10). The internal 1kHz oscillator signal is supplied to this red banana jack when the MODULATION switch (18) is in the INT position. The amplitude of the 1kHz output is variable between 0 and approximately 8 volts peak-to-peak using the MOD LEVEL control (4).
- k) RF OUT 50 Ω jack A2J1 (11). The RF output signal is taken from this terminal. A shielded 50 Ω cable with a phono plug is supplied for use with this terminal.
- l) 50/60Hz OUT jack J4 (12). The 50/60Hz sweep rate signal is available at this yellow banana jack at an amplitude of 7 volts rms.
- m) SWEEP WIDTH CONTROL R9 (13). This control varies the amount of frequency variation above and below the center sweep frequencies of 455kHz and 10.7MHz.
- n) GND jack J5 (14). Black banana jack which serves as a ground lead connection for the 50/60Hz OUT jack (12).
- o) XTAL socket (15). This two pin crystal socket accepts the external plug-in crystal. Inserting the crystal activates the crystal oscillator.
- p) XTAL CAL indicator DS2 (16). This red light emitting diode (LED) provides a visual zero beat indication for the crystal calibration procedure.
- q) SWEEP switch S3 (17). When the BAND switch (2) is set to one of the two sweep frequency positions and the RF frequency dial (5) is set to the sweep center frequency, this switch must be set to the IN position to apply a 50/60Hz sweep voltage to the RF carrier signal to produce a sweep output. The OUT position removes the sweep voltage.
- r) MODULATION switch S1 (18). This switch selects internal or external modulation. When the switch is in the INT position, the RF carrier is modulated by the internal 1kHz oscillator. When the switch is in the EXT position, the RF carrier can be modulated by any suitable external source up to 15kHz. This switch determines whether the 1KHz OUT jack (14) or the EXT MOD jack (12) is connected into the circuit.
- s)%MOD/RF switch S4 (19). Selects the measurement function of Meter M1 (1). The %MOD position connects the meter to measure the percentage of amplitude modulation of the RF output signal. The RF position connects the meter to measure the RF output signal level in db relative to 0db.

2. OPERATING INFORMATION

a) General.

- 1) Turn on power by depressing the right side of the POWER switch. Check that the red POWER indicator comes on. Allow a few minutes for warmup.
 - 2) Rotate the BAND switch to the desired frequency range.
- 3) Rotate the RF frequency dial control knob until the desired frequency setting is positioned over the panel index line.
- 4) Connect the RF cable to the RF OUT jack. If the RF signal is to be applied to a circuit having an input impedance other than 50 ohms, an external 50 ohm termination resistor must be placed across (in parallel with) the open ends of the cable leads.



(Nomenclature for controls and jacks is identical for Models 780A and 980A. Control position for Model 780A will vary from that shown in this figure.)

Fig. 1 Front Panel, Controls and Indicators

- 5) Connect the RF cable leads to the equipment being tested. First, connect the black (ground) lead to the chassis, then the red (signal) lead to the signal injection point.
 - b) Setting The Signal Level.
 - 1) Be sure the RF output cable is terminated in a 50 ohm load.
 - 2) Set the MODULATION switch to the EXT position (no modulation).
- 3) Check that the BAND switch and RF Frequency dial are set for the desired frequency.
 - 4) Set the %MOD/RF switch to the RF position.
- 5) Refer to Fig. 2. Determine the amount of attenuation in decibels required to produce the desired output signal level. The output level may be in millivolts, microvolts etc., but must be converted to db to correspond with the RF Generator controls. (NOTE: 0db = 100mV in this unit.)
- 6) Set as many ATTENUATOR switches to the IN position as necessary to come within the maximum db attenuation required. All other ATTENUATOR switches must be in the OUT position. Rotate the RF LEVEL control for any additional attenuation required as indicated on the db scale of the Meter. The total attenuation is equal to all the ATTENUATOR switches in the IN position plus the Meter reading below the 0db reference level. Levels above the 0db (100mV) reference can be obtained by placing all the ATTENUATOR switches in the OUT position and adjusting the RF LEVEL control for the desired level above the 0db mark on the Meter.
- 7) If greater accuracy is required in setting the output signal level, rotate the RF LEVEL control for a 0db indication on the Meter first, then set the required ATTENUATOR switches to the IN position. Readjust the RF LEVEL control for a 0db Meter indication each time an ATTENUATOR switch position is changed.

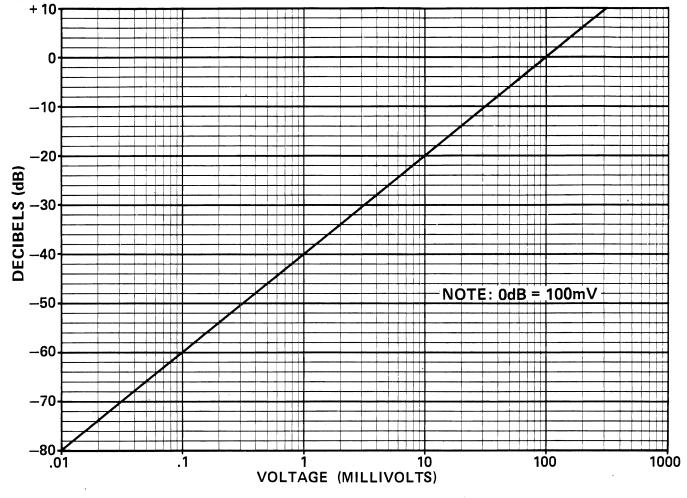


Fig. 2 Voltage To Decibel Conversion Chart

NOTE: If the RF output is not terminated in 50 ohms, the output signal level is not calibrated. However, relative indications of higher or lower levels are still provided by the Meter and ATTENUATOR switches.

8) As an example, assume the desired output signal level is 5 millivolts. From Fig. 2 this corresponds to -26db. Set either (but not both) of the 20db plus the 6db ATTENUATOR switches to the IN positions. Rotate the RF LEVEL control for a 0db indication on the Meter.

c) Modulation.

- 1) Set the %MOD/RF switch to the %MOD position.
- 2) If the 1kHz internal modulation signal is to be used, set the MODULATION switch to the INT position and adjust the MOD LEVEL control for the desired percentage of modulation as indicated on the Meter.
- 3) For external modulation, set the MODULATION switch to the EXT position and apply the audio modulating signal (to 15kHz) between the EXT MOD and GND jacks. Adjust the amplitude of the external modulating signal for the desired percentage of modulation on the Meter. (NOTE: The MOD LEVEL control is inoperable for external modulation.)
- d) Crystal Calibration. The crystal calibrator uses the zero beat method to calibrate the RF output signal of the generator. The XTAL CAL indicator is used as a zero beat indicator. The crystal oscillator signal is beat with the RF output signal to obtain a difference frequency. When the difference frequency becomes less than a few hundred cycles the XTAL CAL indicator lights. If both signals have the same frequency (no difference frequency), a zero beat occurs and the XTAL CAL indicator extinguishes. On either side of the zero beat, a small difference signal is produced and the XTAL CAL indicator will light. This results for only small difference frequencies, however, and the true zero beat is when the indicator extinguishes. Because of resolution limitations at the higher frequencies the true zero beat may not be distinguishable on

the indicator. In this case the maximum brightness indication must be used as the zero beat indication. This represents a calibration accuracy within $\pm 0.1\%$, which is acceptable in most applications. Calibration points are at the fundamental frequency and harmonics of the external plug-in crystal.

- 1) Set the MODULATION switch to EXT (no modulation).
- 2) Set the SWEEP switch to OUT.
- 3) Select the desired frequency range with the BAND switch.
- 4) Rotate the RF Frequency dial to the desired frequency.
- 5) Set the RF output level as in paragraph 2b) before crystal calibrating the frequency. A slight frequency pulling can occur if the RF LEVEL and ATTENUATOR settings are changed during frequency calibration.
 - 6) Plug the selected crystal into the XTAL socket.
- 7) Carefully adjust the RF Frequency dial until the XTAL CAL indicator lights, extinguishes and then lights again. Tune the dial for the null (extinguished) point between the two illumination points of the indicator. If the null point is indistinguishable, tune the dial for maximum brightness on the indicator.
 - 8) Remove the crystal from the XTAL socket.
 - e) Sweep Frequency Crystal Calibration.
 - 1) Set the MODULATION switch to EXT.
 - 2) Set the SWEEP switch to OUT.
- 3) Rotate the BAND switch to the desired sweep frequency position (455kHz or 10.7MHz).
- 4) Rotate the RF Frequency dial to the sweep frequency setting that corresponds to the selected BAND switch position. The 455kHz and 10.7MHz points are identified on the dial.
 - 5) Set the RF output level as in paragraph 2b).
 - 6) Perform steps 6, 7 and 8 of paragraph 2d).
 - 7) Set the SWEEP switch to IN to obtain the desired sweep frequency output.

SECTION 5

THEORY OF OPERATION

Refer to the schematic diagram of the RF Generator shown in Fig. 8 for the circuits described in the following paragraphs.

1. RF OSCILLATOR CIRCUIT

The RF oscillator circuit uses a differential amplifier that forms a part of IC transistor arrays A1A1U1 and A1A1U2. The differential amplifier is comprised of transistors A1A1U1C and A1A1U1D. Transistor A1A1U2C, along with associated bias networks, serves as a current source. The frequency determining tuned circuit consists of coils A1A1L1 through A1A1L8 and variable capacitor A1C1 (tuning dial). Positive feedback is applied directly from the tuned circuit connected at the collector of A1A1U1D to the base of transistor A1A1U1C. The BAND selector switch performs four functions: (1) section A1A1S1A switches in the two sweep ranges (L1 and L2), (2) section A1A1S1C switches in the six frequency ranges (L3-L8), (3) section A1A1S1B shorts out all coils (A1A1L1 through A1A1L8), except the one coil being used, to prevent interaction between coils, and (4) section A1A1S1D selects the proper bias network for A1A1U2C. Trimmer capacitors A1A1C1 through A1A1C6, in conjunction with the tuning slugs in the coils, provide a means for fine frequency adjustment during calibration or touch up. Amplitude adjustment is made available on bands (A) through (F) by potentiometers A1A1R30, A1A1R34, A1A1R28, A1A1R26, A1A1R32 and A1A1R24, respectively.

The RF oscillator is amplitude modulated by varying the gain of the differential amplifier. The modulating signal is applied through potentiometer A1A2R39 and capacitor A1A2C22 to the base of transistor A1A1U2C. The input signal is converted to a current by transistor A1A1U2C and the various emitter networks, and is then divided through transistors A1A1U1C and A1A1U1D. The peak voltage gain of the differential amplifier RF oscillator circuit is equal to the emitter current of transistor A1A1U2C times the parallel impedance of the tuned circuit at resonance. Therefore, by changing the emitter current with a varying modulating voltage, the gain will vary accordingly.

The output of the RF oscillator is coupled through capacitor A1A1C12 to buffer amplifier A1A1U1A. The output of the buffer is directly coupled to the RF amplifier A1A1U1B. Two outputs are provided from RF amplifier A1A1U1B. The first is applied to the input of the crystal calibrator circuit, while the second output is coupled to buffer amplifier A1A1U2A. The RF amplifier has a gain of approximately two with RF LEVEL control A1R1 set for maximum resistance. The signal from the wiper arm of A1R1 is coupled through capacitor A1A1C15 to buffer amplifier A1A1U2A. Buffer amplifier A1A1U2A operates as an emitter follower, providing a low impedance output signal.

2. SWEEP CIRCUIT

A sweep signal is formed by repeatedly increasing and decreasing the frequency of an oscillator. The basic frequency of the oscillator, before it is swept, is known as the center frequency. The total amount of frequency variation above and below the center frequency is called the sweep width. The signal is swept back and forth through the band of frequencies a certain number of times per second. This is known as the sweep rate. The sweep rate is 50 or 60 times per second depending on the line frequency. Variable capacitance diode A1A1CR1 is used in conjunction with the 455kHz (A1A1L1, A1C1) and 10.7MHz (A1A1L2, A1C1) tuned circuits to sweep the RF oscillator. Ac voltage is applied to A1A1CR1 from the secondary winding on transformer A1T1 through SWEEP switch S3, potentiometer R9, resistor A1A2R3, capacitor A1A2C7 and resistor A1A2R56 to provide a 50/60Hz sweep rate. Bias voltage for variable capacitance diode A1A1CR1 is established by resistor A1A2R5 and potentiometer A1A2R4. Potentiometer A1A2R4 is made variable to obtain linearity control over the sweep range. The sweep width is made variable with potentiometer R9.

3. CRYSTAL OSCILLATOR

The crystal controlled oscillator is operated by inserting a crystal of the desired frequency into the socket on the front panel of the instrument. The crystal oscillates in parallel resonance, fundamental mode. Positive feedback is from the collector of A1A2U1A to the base of A1A2U1D and then to the base of A1A2U1A. Transistor A1A2U1D, an emitter follower, is placed between the crystal and the base of A1A2U1A. The emitter-follower increases the input impedance seen by the crystal looking into the base of A1A2U1A, which is usually small compared with crystal characteristics. Small changes in frequency can be obtained by varying the 10 to 40 pF trimmer A1A2C10.

4. CRYSTAL CALIBRATOR CIRCUIT

The crystal oscillator output signal, along with the RF oscillator output, are mixed and amplified together by transistor A1A2U1B. Diode A1A2CR8 then rectifies the complex signal, which is coupled through capacitor A1A2C16 to the twin-T bandpass filter and amplifier A1A2U2. This narrow bandpass amplifier, which has a peak gain at 100Hz, filters and amplifies the difference frequency. This signal is coupled to buffer amplifier A1A2U2, which in turn drives the LED DS2. Potentiometer A1A2R21 controls the bias offset at the output applied to the LED.

5. 1kHz OSCILLATOR

The 1kHz oscillator is a Wien bridge audio oscillator circuit consisting of operational amplifier A1A2U3, a phase feedback network (capacitors A1A2C21, A1A2C20 and resistors A1A2R34, A1A2R32), a clamping network (diodes A1A2CR10, A1A2CR11 and resistors A1A2R35, A1A2R36, A1A2R37, A1A2R38) and associated circuit components. Stage gain is controlled by adjusting A1A2R30, thereby varying the distortion of the oscillator. Potentiometer R1 (MOD LEVEL) provides a means for varying the output level of the oscillator. When the MODULATION switch S2 is in the INT position, the 1kHz output signal is fed to the 1kHz OUT jack, the meter circuit and to the base of transistor A1A2U2C.

6. METER CIRCUIT

a) RF Function. The RF output level, present at the input of the ATTENUATOR selectors, is sampled by the Schottky detector diode A2CR1. The dc output of the detector is

supplied to meter switch S4. Potentiometer A1A2R45 controls the dc bias current through Schottky diode. When the meter switch is set for the RF position, the detector voltage is supplied to meter amplifier A1A2U3 and from there to the RF and % modulation meter M1. Potentiometer A1A2R49 adjusts the meter zero while potentiometer A1A2R57 controls the full scale adjustment. The relative input level present at the input of the ATTENUATOR selectors is indicated on meter M1 in decibels.

b) % Modulation Function. The amplitude of the 1kHz signal is sampled by modulation detector A1A2CR12, which provides a dc voltage proportional to the 1kHz signal level. This is applied to meter switch S4. When the meter switch is in the %MOD position, the modulation detector output is switched to meter amplifier A1A2U3 and from there to the RF and % modulation meter M1. Potentiometer A1A2R43 adjusts the meter zero while potentiometer A1A2R55 controls the full scale adjustment. The meter is calibrated to indicate percent modulation relative to the amplitude of the modulating voltage supplied.

7. ATTENUATOR

The five switches which control individual T-attenuators may be used in any combination. The RF oscillator output is coupled through capacitor A1A1C17 to the input of the ATTENUATOR selectors. The output of the attenuator is supplied through capacitor A1C2 to the RF OUT jack. When the output is terminated in a 50 ohm load, the calibrated RF voltage level is determined by the settings of the RF LEVEL control and ATTENUATOR switch settings.

8. POWER SUPPLY

The power supply consists of a full-wave bridge rectifier A1A2CR1 through A1A2CR4 and a filter network consisting of capacitors A1A2C3, A1A2C4 and resistor A1A2R1. The output of the power supply is +12Vdc and -12Vdc referenced to ground. Regulation is provided by Zener diodes A1A2CR5 and A1A2CR6. For 230Vac operation see Note 7 on schematic diagram.

SECTION 6

MAINTENANCE AND CALIBRATION

The Model 780A and Model 980A RF Generators are manufactured and tested to meet exceptionally high standards of performance. It should give many years of trouble-free service without the need for routine maintenance. The unit is carefully calibrated and checked at the factory and, under normal usage, should not require complete calibration. If, due to tampering or replacement of critical, active semiconductor components, one or more functions lose calibration it is advisable to return the unit to the nearest authorized Lab-Volt repair station or to the factory for testing and recalibration. Contact your area Lab-Volt field representative for instructions on returning the unit.

For those with the capability and facilities, the sequence of measurements and adjustments for recalibration is presented. Follow the sequence carefully, and before changing any adjustment note its position so that you can return to it if necessary. Remember, calibration accuracy is only as accurate as your test equipment. Test equipment should have accuracies ten times greater than the required accuracy of adjustment.

A rear view of the RF Generator is shown in Fig. 4 to assist in locating assemblies, PC boards and components. Figs. 5 and 6 show the location of components and adjustments on PC boards A1A1 and A1A2, respectively. Components forming a part of attenuator assembly A2 are shown in Fig. 7. The electrical location of the components and adjustments is shown in the schematic diagram of Fig. 8.

1. PRELIMINARY PROCEDURE

- a) Remove the unit from the tunnel or carrying case and orient it for easy access to the adjustments. PC board A1A1 is located inside assembly A1 housing. The bottom cover must be removed from A1 to gain access to the adjustments.
 - b) Connect the line cord to the power line.
 - c) Turn on the RF Generator. Allow a 15 minute warmup period.
 - d) Use an accurate ohmmeter to test the condition of all test leads.

2. BANDS A-F FREQUENCY AND AMPLITUDE

A frequency counter and a high impedance RF voltmeter with a frequency range up to 110MHz are required for these adjustments.

- a) Initial Control Settings.
 - 1) Set MODULATION switch to EXT.
 - 2) Set SWEEP switch to OUT.
 - 3) Remove any crystal from XTAL socket.
 - 4) Set all five ATTENUATOR switches to OUT.
 - 5) Rotate BAND switch to band (B).
 - 6) Rotate MOD LEVEL control fully CCW.
 - 7) Adjust RF LEVEL control to mid-position.
 - 8) Terminate RF OUT jack with 50 ohm resistor.
- b) Adjustment Procedure.
- 1) Rotate RF Frequency dial so that 32 mark on middle scale (B)(D) is positioned over panel index line.
 - 2) Connect frequency counter to RF OUT jack.
- 3) Use hexagonal nylon tuning rod and adjust tuning slug of coil A1A1L4 to display 320kHz on counter.

NOTE: The RF oscillator frequency is affected by whether the bottom access cover on the A1 enclosure is on or off. Therefore, throughout this procedure, each frequency adjustment must first be made with the cover off. Then the cover must be replaced and the change in frequency observed. The cover must be removed again each time and the adjustment repeated to compensate for the frequency change. This must be repeated as required to obtain an accurate frequency adjustment, both at the high end and the low end of each band.

- 4) Rotate RF Frequency dial so that 100 mark on (B)(D) scale is positioned over index line.
 - 5) Adjust trimmer capacitor A1A1C2 to display 1MHz on counter.
 - 6) Repeat steps (1) through (5) twice. Remove counter.
 - 7) Rotate RF Frequency dial to index at 660kHz mark on (B)(D) scale.
- 8) Connect RF voltmeter between collector (pin 1) of transistor A1A1U1D and ground. Adjust potentiometer A1A1R34 for 200mV rms indication.
 - 9) Remove RF voltmeter and connect it to RF OUT jack.
- 10) Adjust RF LEVEL control (A1R1) for 200mV rms indication on RF voltmeter. Do not change the setting of A1R1 until after all bands have been calibrated. Remove RF voltmeter.
 - 11) Rotate BAND switch to band (A).
 - 12) Rotate RF Frequency dial so that 10 mark on (A)(C)(E) scale is over index line.
 - 13) Connect frequency counter to RF OUT jack.
 - 14) Adjust tuning slug of coil A1A1L3 to display 100kHz on counter.
 - 15) Rotate RF Frequency dial to index at 32 mark on (A)(C)(E) scale.
 - 16) Adjust trimmer capacitor A1A1C1 to display 320kHz on counter.
 - 17) Repeat steps (12) through (16) twice. Remove counter.
 - 18) Rotate RF Frequency dial to index at 210kHz mark on (A)(C)(E) scale.
 - 19) Connect RF voltmeter to RF OUT jack.
- 20) Adjust potentiometer A1A1R30 for 200mV rms indication on meter. Remove RF voltmeter.
 - 21) Rotate BAND switch to band (C).
 - 22) Rotate RF Frequency dial to index at 10 mark on (A)(C)(E) scale.
 - 23) Connect frequency counter to RF OUT jack.
 - 24) Adjust tuning slug of coil A1A1L5 to display 1MHz on counter.
 - 25) Rotate RF Frequency dial to index at 32 mark on (A)(C)(E) scale.
 - 26) Adjust trimmer capacitor A1A1C3 to display 3.2MHz on counter.
 - 27) Repeat steps (22) through (26) twice. Remove counter.
 - 28) Rotate RF Frequency dial to index at 2.10MHz mark on (A)(C)(E) scale.
 - 29) Connect RF voltmeter to RF OUT jack.
- 30) Adjust potentiometer A1A1R28 for 200mV rms indication on meter. Remove RF voltmeter.

- 31) Rotate BAND switch to band (D).
- 32) Rotate RF Frequency dial to index at 32 mark on (B)(D) scale.
- 33) Connect frequency counter to RF OUT jack.
- 34) Adjust tuning slug of coil A1A1L6 to display 3.2MHz on counter.
- 35) Rotate RF Frequency dial to index at 100 mark on (B)(D) scale.
- 36) Adjust trimmer capacitor A1A1C4 to display 10MHz on counter.
- 37) Repeat steps (32) through (36) twice. Remove counter.
- 38) Rotate RF Frequency dial to index at 6.6MHz mark on (B)(D) scale.
- 39) Connect RF voltmeter to RF OUT jack.
- 40) Adjust potentiometer A1A1R26 for 200mV rms indication on meter. Remove RF voltmeter.
 - 41) Rotate BAND switch to band (E).
 - 42) Rotate RF Frequency dial to index at 10 mark on (A)(C)(E) scale.
 - 43) Connect frequency counter to RF OUT jack.
 - 44) Adjust tuning slug of coil A1A1L7 to display 10MHz on counter.
 - 45) Rotate RF Frequency dial to index at 32 mark on (A)(C)(E) scale.
 - 46) Adjust trimmer capacitor A1A1C5 to display 32MHz on counter.
 - 47) Repeat steps (42) through (46) twice. Remove counter.
 - 48) Rotate RF Frequency dial to index at 21.0MHz mark on (A)(C)(E) scale.
 - 49) Connect RF voltmeter to RF OUT jack.
- 50) Adjust potentiometer A1A1R32 for 200mV rms indication on meter. Remove RF voltmeter.
 - 51) Rotate BAND switch to band (F).
 - 52) Rotate RF Frequency dial to index at 110 mark on (F) scale.
 - 53) Connect frequency counter to RF OUT jack.
 - 54) Adjust potentiometer A1A1R24 to mid-position.
- 55) Adjust trimmer capacitor A1A1C6 for maximum frequency display around 110MHz on counter.
 - 56) Adjust potentiometer A1A1R24 for display of 110MHz on counter.
 - 57) Repeat steps (54), (55) and (56) twice.
- 58) Replace access cover on A1 enclosure and secure it if no further adjustments are to be performed. Leave cover off if sweep frequency adjustments are to be made.

3. SWEEP FREQUENCIES

A frequency counter and a high impedance RF voltmeter with a frequency range up to 10.7MHz, and an electronic VOM are required for these adjustments.

- a) <u>Initial Control Settings.</u> Perform initial control settings of paragraph 2a) except rotate BAND switch to 455KHz SWEEP position. Remove bottom access cover from A1 enclosure to gain access to sweep frequency tuning coils.
 - b) Adjustment Procedure.
 - 1) Connect RF voltmeter to RF OUT jack.
- 2) Adjust RF LEVEL control for 200mV rms indication on meter. Remove RF voltmeter.
 - 3) Connect electronic VOM between terminal A1A2E19 and ground.
- 4) Adjust potentiometer A1A2R4 for -4.5Vdc indication on electronic VOM. Remove VOM.
 - 5) Rotate RF Frequency dial to index at 455kHz mark on (B)(D) scale.
 - 6) Connect frequency counter to RF OUT jack.
 - 7) Adjust tuning slug of coil A1A1L1 to display 455kHz on counter.
 - 8) Rotate BAND switch to 10.7MHz SWEEP position.
 - 9) Rotate RF Frequency dial to index at 10.7MHz mark on (A)(C)(E) scale.
- 10) Adjust tuning slug of coil A1A1L2 to display 10.7MHz on counter. Remove counter.
 - 11) Replace access cover on A1 enclosure and secure it.

4. CRYSTAL OSCILLATOR AND CALIBRATOR

A frequency counter and an oscilloscope with a frequency range up to 10.7MHz, and an electronic VOM are required for these adjustments.

a) Adjustment Procedure.

- 1) Insert a 10.7MHz crystal into XTAL socket.
- 2) Connect frequency counter between A1A2E25 and ground.

NOTE: The output impedance at A1A2E25 is approximately 1000 ohms. Be sure the frequency counter used does not load down the crystal oscillator, otherwise the calibration will be inaccurate.

- 3) Adjust capacitor A1A2C10 to display 10.7MHz on counter. Remove counter.
- 4) Remove crystal from socket.
- 5) Connect vertical input of oscilloscope to pin 1 of operational amplifier A1A2U2. Adjust oscilloscope controls for appropriate display.
 - 6) Connect electronic VOM between terminal A1A2E26 and ground.
- 7) Adjust potentiometer A1A2R21 for 0.5Vdc indication on electronic VOM. Remove VOM.

5. 1kHz OSCILLATOR

An oscilloscope is required for this adjustment.

- a) Adjustment Procedure.
 - 1) Adjust MOD LEVEL control for maximum output.
- 2) Connect oscilloscope vertical input between 1KHz OUT and GND jacks. Adjust oscilloscope controls for 1kHz sweep and convenient amplitude.
 - 3) Set MODULATION switch to INT.
- 4) Adjust potentiometer A1A2R30 until waveform on oscilloscope displays maximum amplitude with minimum distortion. Disconnect oscilloscope.

6. MODULATION

An RF voltmeter and an oscilloscope with a frequency range up to 210kHz are required for this adjustment.

NOTE: The RF amplitude adjustments of paragraph 2 must be set correctly before this adjustment can be performed. If the RF amplitude adjustments have not been made, perform the applicable steps of paragraph 2 before continuing with this procedure. All RF Generator controls must remain set as they were at the completion of the amplitude adjustments in order to continue with this procedure.

a) Adjustment Procedure.

- 1) Rotate BAND switch to band (A).
- 2) Rotate RF Frequency dial to index at 210kHz mark on (A)(C)(E) scale.
- 3) Adjust MOD LEVEL control for maximum output.
- 4) Connect RF voltmeter to RF OUT jack.
- 5) Adjust RF LEVEL control for 200mV rms indication on meter. Remove meter.
- 6) Connect electronic VOM between terminal A1A2E26 and ground.
- 7) Adjust potentiometer A1A2R39 until valley points on oscilloscope waveform just touch on horizontal axis. When X is 0, Y will be approximately 6 centimeters.
- 8) Rotate MOD LEVEL control and verify that modulation can be varied from 0% at minimum setting to 100% at maximum setting. If not, repeat adjustment.

7. METER

An RF voltmeter and an oscilloscope with a frequency range up to 660kHz, and an electronic VOM are required for these adjustments.

a) RF Function.

- 1) Set RF Generator controls to initial control settings given in paragraph 2a).
- 2) Rotate RF Frequency dial to index at 660kHz mark on (B)(D) scale.
- 3) Rotate RF LEVEL control fully CCW.
- 4) Connect electronic VOM between terminal A1A2E32 and ground.
- 5) Set %MOD/RF switch to RF position.
- 6) Adjust potentiometer A1A2R45 for -0.158Vdc on VOM. Remove VOM.
- 7) Connect RF voltmeter to RF OUT jack.

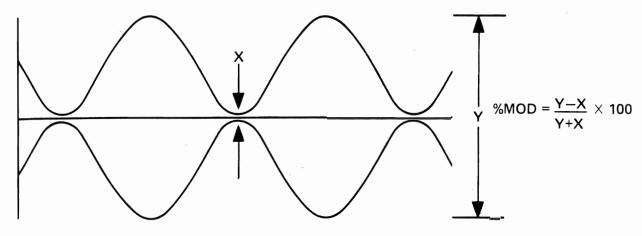
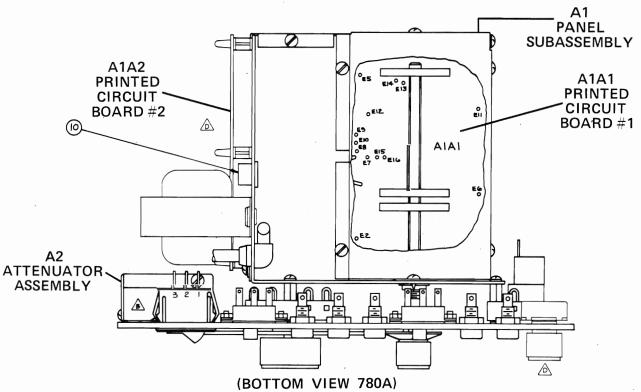


Fig. 3 100% Modulation

- 8) Adjust RF LEVEL control for 100mV rms indication on RF voltmeter.
- 9) Adjust potentiometer A1A2R49 for 0db indication on RF Generator Meter M1.
- 10) Adjust RF LEVEL control for 200mV rms indication on RF voltmeter.
- 11) Adjust potentiometer A1A2R57 for +6db indication on RF Generator Meter M1.
- 12) Repeat steps 8, 9, 10 and 11. Remove RF voltmeter.

b) % Mod Function.

- 1) Rotate BAND switch to band (A).
- 2) Rotate RF Frequency dial to index at 210kHz mark on (A)(C)(E) scale.
- 3) Set MODULATION switch to EXT.
- 4) Connect RF voltmeter to RF OUT jack.



 $(Controls\ and\ jacks\ position\ for\ Model\ 980A\ will\ vary\ from\ those\ shown\ in\ this\ figure.)$

Fig. 4 Assembly and PC Board Locations

- 5) Adjust RF LEVEL control for 200mV rms indication on RF voltmeter. Remove RF voltmeter.
- 6) Connect oscilloscope vertical input to RF OUT jack. Adjust horizontal sweep for sinewave and vertical controls for 4cm peak-to-peak defelction.
 - 7) Set MODULATION switch to INT.
- 8) Adjust MOD LEVEL control for 100% modulation on oscilloscope. A waveform similar to that shown in Fig. 3 should be displayed on oscilloscope.
 - 9) Set MODULATION switch to EXT.
 - 10) Set %MOD/RF switch to %MOD position.
 - 11) Adjust potentiometer A1A2R43 for 0 indication on RF Generator Meter M1.
 - 12) Set MODULATION switch to INT.
- $13)\;$ Adjust potentiometer A1A2R55 for 100% modulation indication on RF Generator Meter M1.
- 14) Disconnect all test equipment, de-energize the RF Generator and replace it in its tunnel or carrying case.

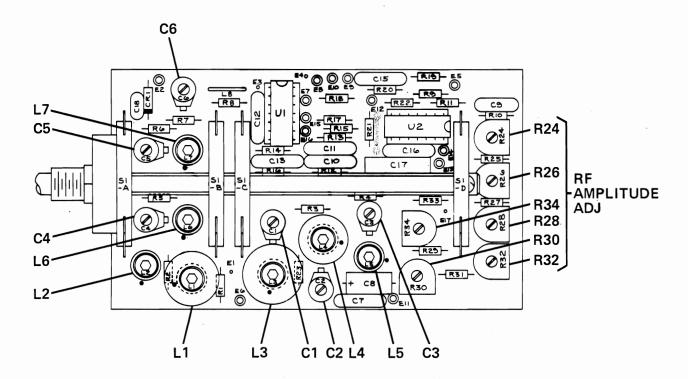


Fig. 5 Printed Circuit Board A1A1, Components and Adjustments

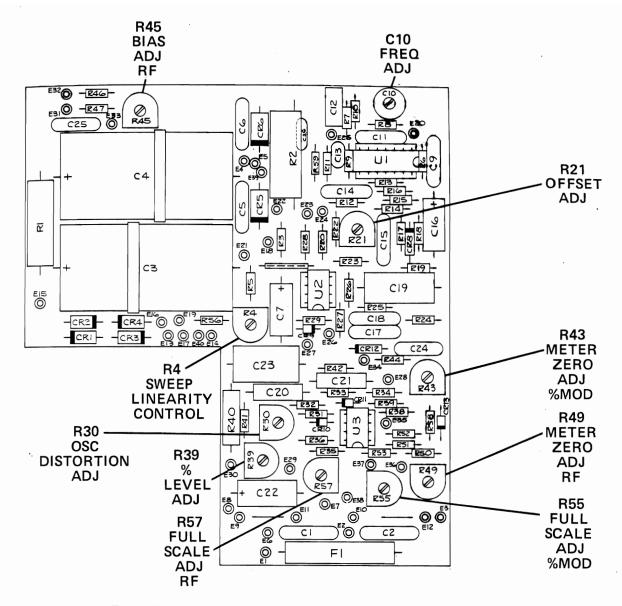


Fig. 6 Printed Circuit Board A1A2, Components and Adjustments

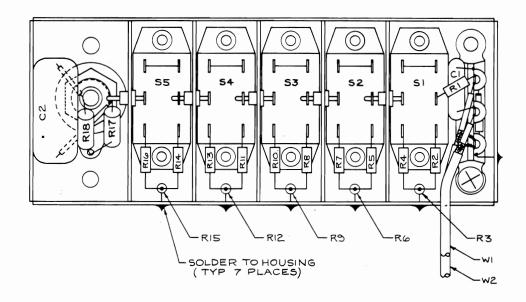


Fig. 7 Attenuator Assembly A2, Components

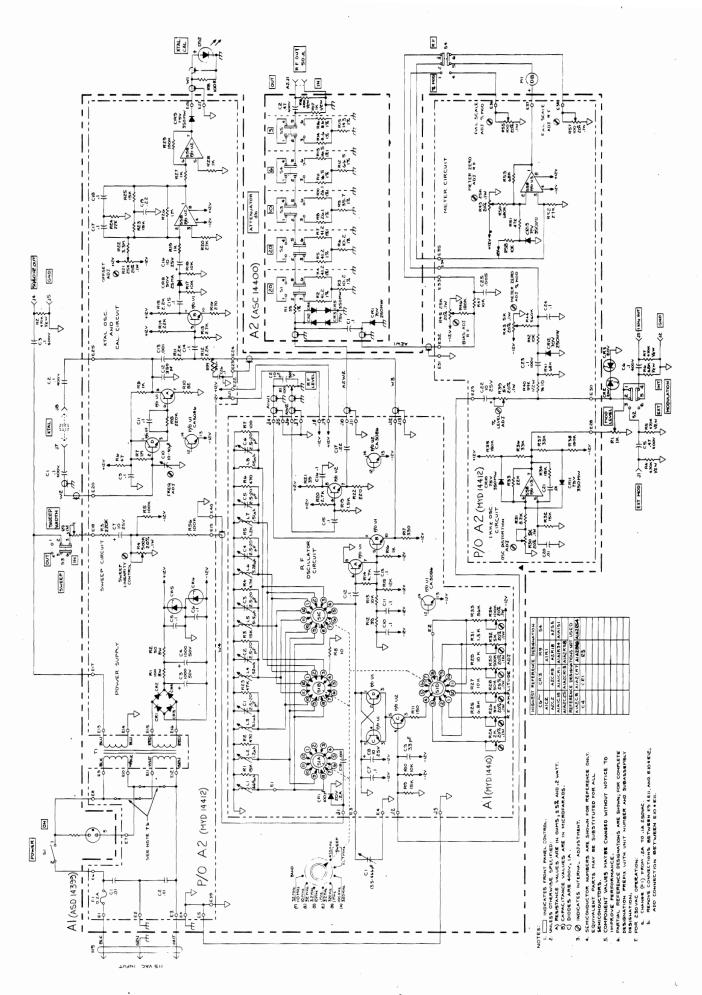
SECTION 7

REPLACEMENT PARTS LIST

Classis Components	Symbol	Description	P/N	Symbol	Description	P/N
Capacitor, Metalized Polysester, ol. μF, 400V		Chassis Components				
Alall Coli. 65gH	C2 C3 C5	Capacitor, Metalized, Polyester, $0.1\mu\text{F}$, 400V Capacitor, Metalized Polyester, $0.1\mu\text{F}$, 400V Capacitor, Metalized Polyester, $0.47\mu\text{F}$, 400V	KT 14544 KT 14544 KT 14545	A1A1C16 A1A1C17	Capacitor, Ceramic Disc, 0.1µF, 50V Capacitor, Metalized Polyester, 0.22µF, 250V	KL 14342 KT 14543
Alall Coll, 13em LK 14558-03	CR2	Diode, Zener, 20V, 1W	MD 11722	A1A1CR1	Diode, Varactor, 20V, 0.2A	MD 13977
DS2	CR3	Diode, Zener, 20V, 1W	MD 11722	A1A1L2	Coil, 1.2µH	LK 14558-02
12 Jack, Bannan, Black	DS2	Indicator, Light Emitting Diode	MR 14612	•		
13 Jack, Bannan, Red		· · · · · · · · · · · · · · · · · · ·		1		
14						
Jack, Banana, Black					•	
Socket, Insulated, 0.050 pin				1		
Socket, Insulated, 0.050 pin LF 14-598 AIAIRA Resistor, Deposited Carbon, 15KΩ, 0.2W, 5% NH 13475						
Socket, Insulated, U030 pn						
R1	18	Socket, Insulated, 0.050 pin	LP 14398			
Potentiometer, 1κ32, 0.9w, 30% NN 351 R2 Resistor, Carbon Comp, 470kΩ, 0.5w, 5% No 14024 R4 Resistor, Carbon Comp, 470kΩ, 0.5w, 5% No 14024 R5 Resistor, Carbon Comp, 470kΩ, 0.5w, 5% No 14024 R6 Resistor, Deposited Carbon, 6.8kΩ 0.5w, 10% R6 Resistor, Deposited Carbon, 6.8kΩ 0.5w, 10% R7 Resistor, Deposited Carbon, 100kΩ, 0.2w, 5% NH 13473 R6 Resistor, Deposited Carbon, 6.8kΩ 0.5w, 10% R7 Resistor, Deposited Carbon, 100kΩ, 0.2w, 5% R8 Resistor, Deposited Carbon, 15kΩ, 0.2w, 5% R1 13473 R1 13473 R1 13473 R1 13474 R1 13474 R1 13474 R1 13475 R1 13474 R1 R1 R1 R1 R1 R1 R1 R1 R1	M1	Meter, Split-scale, $100 \mathrm{mV}$, 10Ω	MW 14393			
Resistor, Carbon Comp. 470kΩ, 0.5W, 5% NG 14024 R8 Resistor, Carbon Comp. 470kΩ, 0.5W, 5% NG 14024 R6 Resistor, Carbon Comp. 470kΩ, 0.5W, 5% NG 14024 R7 Resistor, Carbon Comp. 470kΩ, 0.5W, 5% NG 14024 R8 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13473 R7 Resistor, Deposited Carbon, 6.8kΩ, 0.2W, 5% NG 14024 R8 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13478 R7 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13478 R8 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13478 R8 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13479 Potentiometer, 10kΩ, 0.5W, 30% R1 1493 R8 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13473 A1A1R12 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13473 A1A1R13 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13473 A1A1R14 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13473 A1A1R15 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13473 A1A1R16 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13473 A1A1R17 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13474 A1A1R19 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13474 A1A1R19 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13466 A1A1R10 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13466 A1A1R17 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13466 A1A1R18 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13466 A1A1R19 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13466 A1A1R19 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13466 A1A1R10 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13466 A1A1R10 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13466 A1A1R11 Pinted Circuit Boad #1 MY 14410 A1A1 Printed Circuit Boad #1 MY 14410 A1A1C1 Capacitor, Variable, 2.5-200F, 250V KY 14439 A1A1R2 Capacito	R1	Potentiometer, $1k\Omega$, 0.5W, 30%	NV 351	1		
Resistor, Carbon Comp., 470κΩ, 0.5W, 5% R5 Resistor, Deposited Carbon, 0.6W, 0.2W, 5% R6 Resistor, Deposited Carbon, 0.6W, 0.2W, 5% R7 Resistor, Deposited Carbon, 0.6W, 0.2W, 5% R8 Resistor, Deposited Carbon, 0.0K, 0.2W, 5% R8 Resistor, Deposited Carbon, 0.		· · · · · · · · · · · · · · · · · · ·				
Resistor, Carbonic Carbonic, 6.8 κΩ 0.5W, 10% Resistor, Carbonic Carbonic, 100 κΩ 0.2 W, 5% Resistor, Deposited Carbonic, 10 κΩ 0.2 W, 5% Resistor, Deposited			NG 14024			
Resistor, Deposited Carbon, 150Ω, 0.2W, 5% NH 13878						
Resistor, Deposited Carbon, 100kΩ, 0.2W, 5% NH 13480					Resistor, Deposited Carbon, 150 Ω , 0.2W, 5%	
Resistor, Deposited Carbon, 1,0,2,0,2,0,5,8, NH 13473						
Sutch, Rocker, SPST, 15A Light PH 14623 AlAIR15 Resistor, Deposited Carbon, 12kΩ, 0.2W, 5% NH 13474				1		
S2 Switch, Slide, DPDT PH 12596 A1A1R16 Resistor, Deposited Carbon, $1kΩ$, $0.2W$, 5% NH 13464 S3 Switch, Slide, DPDT PH 12596 A1A1R17 Resistor, Deposited Carbon, $1kΩ$, $0.2W$, 5% NH 1440 S4 Switch, Slide, DPDT PH 12596 A1A1R19 Resistor, Deposited Carbon, $1kΩ$, $0.2W$, 5% NH 1440 W1 Cable, Shielded #1 KJ 14598 A1A1R20 Resistor, Deposited Carbon, $1kΩ$, $0.2W$, 5% NH 13468 W2 Cable, Shielded #2 KJ 14599 A1A1R20 Resistor, Deposited Carbon, $2nQ$, $0.2W$, 5% NH 13469 W4 Cable, Shielded #3 KJ 14601 A1A1R21 Resistor, Deposited Carbon, $2nQ$, $0.2W$, 5% NH 13459 A1A1R21 Panel Subassembly AS 14399 A1A1R22 Resistor, Deposited Carbon, $2nQ$, $0.2W$, 5% NH 14415 A1A2 PC Board #1 MY 14412 A1A1R27 Resistor, Deposited Carbon, $2nQ$, $0.2W$, 5% NH 13473 A1C2 Capacitor, Variable, 0.452ρ F KY 11545 A1A1R28 Resistor, Deposited Carbon, $2nQ$, $0.2W$, 5% NH 13473 A1R1 Potentiometer, $2nQ$, $2nQ$, $2n$	C 1		DU 14632	1		
Say				1		
Switch, Slide, DPDT						
Variable	S4	Switch, Slide, DPDT	PH 12596			
W2	W1	Cable, Shielded #1	KI 14598			
W3 Cable, Shielded #3 KJ 14600 A1A1R23 Resistor, Deposited Carbon, 47κΩ, 0.2w, 5% NH 14357 W4 Cable, Shielded #4 KJ 14601 A1A1R24 Resistor, Deposited Carbon, 47κΩ, 0.2w, 5% NH 14357 A1 Panel Subassembly AS 14399 A1A1R24 Potentiometer, 2kΩ, 0.1w, 20% NV 11115 A1A1 PC Board #1 MY 14412 A1A1R25 Resistor, Deposited Carbon, 6.8kΩ, 0.2w, 5% NH 14441 A1A2 PC Board #2 MY 14412 A1A1R27 Resistor, Deposited Carbon, 10kΩ, 0.2w, 5% NH 13473 A1C1 Capacitor, Variable, 0-452ρF KY 11545 A1A1R29 Resistor, Deposited Carbon, 10kΩ, 0.1w, 25% NH 13473 A1C2 Capacitor, Dipped Mica, 10ρF, 500V KT 12210 A1A1R30 Potentiometer, 500kΩ, 0.1W, 20% NV 14383 A1R1 Potentiometer, 100Ω, 2w, 10% NV 14592 A1A1R31 Resistor, Deposited Carbon, 15kΩ, 0.2w, 5% NH 13473 A1R1 Transformer, Power, Dual Pri/Sec, 33 and 7Vrms, 15VA NV 14592 A1A1R31 Resistor, Deposited Carbon, 15kΩ, 0.1w, 20% NV 14436 A1W1 Cable, Shielded #1 KJ 14594<						
W4Cable, Shielded #4KJ 14601A1A1R24Potentiometer, $2k\Omega$, $0.1W$, 20% NV 11115A1Panel SubassemblyAS 14399A1A1R25Resistor, Deposited Carbon, $6.8k\Omega$, $0.2W$, 5% NH 14441A1A1PC Board #1MY 14410A1A1R26Potentiometer, $5k\Omega$, $0.1W$, 20% NV 11094A1A2PC Board #2MY 14412A1A1R27Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473A1C1Capacitor, Variable, 0.452ρ FKY 11545A1A1R29Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473A1C2Capacitor, Dipped Mica, 10ρ F, $500V$ KT 12210A1A1R30Potentiometer, $50k\Omega$, $0.1W$, 20% NV 1438A1R1Potentiometer, 100Ω , $2W$, 10% NV 14592A1A1R31Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13466A1T1Transformer, Power, Dual Pri/Sec, 33 and 7Vrms, $15VA$ QG 14591A1A1R31Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13478A1W2Cable, Shielded #1KJ 14595A1A1R34Potentiometer, $50k\Omega$, $0.1W$, 20% NV 12167A1A1C1Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439A1A1C1Integrated Circuit, Transistor/Diode Array, MO 13296A1A1C2Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439A1A2CPrinted Circuit Board #2MY 14412A1A1C3Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439A1A2CPrinted Circuit Board #2MY 14412A1A1C4Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439A1A2CCapacitor, Ceramic Disc, 0.01μ F, $1000V$	W3	Cable, Shielded #3				
All Panel Subassembly As 14399 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 11094 Alar R26 Resistor, Deposited Carbon, $6.8k\Omega$, $0.2W$, 5% NH 14441 Alar PC Board #1 My 14410 Alar R27 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NV 11094 Alar R26 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NV 11094 Alar R26 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NV 11622 Alar R27 Alar R28 Potentiometer, $50k\Omega$, $0.1W$, 25% NV 11622 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473 Alar R27 Potentiometer, $50k\Omega$, $0.1W$, 25% NV 14438 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473 Alar R27 Potentiometer, $50k\Omega$, $0.1W$, 25% NV 14438 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13473 Alar R29 Potentiometer, $50k\Omega$, $0.1W$, 20% NV 14592 Alar R29 Potentiometer, $50k\Omega$, $0.1W$, 20% NV 14594 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 11094 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 11094 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 11094 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 11094 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 12167 Alar R29 Potentiometer, $5k\Omega$, $0.1W$, 0	W4	Cable, Shielded #4	KJ 14601			
AlAl PC Board #1 AlA2 PC Board #2 AlA2 PC Board #2 AlA12 PC Board #2 AlA12 PC Board #2 AlA12 PC Board #2 AlA122 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473 AlC2 Capacitor, Dipped Mica, 10ρ F, $500V$ KT 12210 AlA1R30 Potentiometer, $50k\Omega$, $0.1W$, 25% NH 13473 AlC2 Capacitor, Dipped Mica, 10ρ F, $500V$ KT 12210 AlA1R31 Potentiometer, 100Ω , $2W$, 10% NV 14592 AlA112 Transformer, Power, Dual Pri/Sec, 33 and 7Vrms, $15VA$ AlA123 Potentiometer, $15k\Omega$, $0.1W$, 20% NV 11094 AlW1 Cable, Shielded #1 AlA12 Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439 AlA1C1 Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439 AlA1C2 Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439 AlA1C3 Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439 AlA1C4 Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439 AlA1C5 Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439 AlA1C6 Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439 AlA1C7 Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439 AlA1C6 Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439 AlA1C7 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 AlA1C8 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 AlA1C8 Capacitor, Dipped Mica, 33ρ F, $500V$ KL 14342 AlA1C8 Capacitor, Dipped Mica, 33ρ F, $500V$ KL 14342 AlA1C10 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 AlA1C10 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 AlA1C10 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 AlA1C10 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 AlA1C10 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 AlA1C10 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 AlA1C10 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342	A1	Panel Subassembly	AS 14399			NH 14441
Ala Capacitor, Variable, 0.452ρ F (Ala Samura Potentiometer, $50k\Omega$, $0.1W$, 25% (Ala NV 11622 Ala Capacitor, Dipped Mica, 10ρ F, $500V$ (KT 12210 Ala Rasistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% (NH 13473 Ala Rasistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% (NH 13473 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.1W$, 20% (NV 1438 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13476 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% (NH 13478 Ala Rasistor, Deposited Carbon, $1.5k\Omega$, $0.2W$,						
AlCl Capacitor, Variable, $0-452\rho\mathrm{F}$ KY 11545 AlC2 Capacitor, Dipped Mica, $10\rho\mathrm{F}$, 500V KT 12210 AlA1R30 Potentiometer, $500\mathrm{k}\Omega$, $0.1\mathrm{W}$, 20% NV 14438 AlR11 Potentiometer, 100Ω , $2\mathrm{W}$, 10% NV 14592 AlA1R31 Resistor, Deposited Carbon, $1.5\mathrm{k}\Omega$, $0.2\mathrm{W}$, 5% NH 13466 AlA1R31 Resistor, Deposited Carbon, $1.5\mathrm{k}\Omega$, $0.2\mathrm{W}$, 5% NH 13466 AlA1R31 Resistor, Deposited Carbon, $1.5\mathrm{k}\Omega$, $0.2\mathrm{W}$, 5% NH 13466 AlA1R31 Resistor, Deposited Carbon, $1.5\mathrm{k}\Omega$, $0.2\mathrm{W}$, 5% NH 13467 NV 11094 AlA1R32 Potentiometer, $5\mathrm{k}\Omega$, $0.1\mathrm{W}$, 20% NV 11094 AlA1R33 Resistor, Deposited Carbon, $5\mathrm{k}\Omega$, $0.2\mathrm{W}$, 5% NH 13478 Potentiometer, $2\mathrm{k}\Omega$, $0.1\mathrm{W}$, 20% NV 12167 AlA1R31 Resistor, Deposited Carbon, $2\mathrm{k}\Omega$, $0.2\mathrm{W}$, 5% NH 13478 Potentiometer, $2\mathrm{k}\Omega$, $0.1\mathrm{W}$, 20% NV 12167 AlA1R31 Resistor, Deposited Carbon, $2\mathrm{k}\Omega$, $0.2\mathrm{W}$, 5% NH 13478 Potentiometer, $2\mathrm{k}\Omega$, $0.1\mathrm{W}$, 20% NV 12167 AlA1R31 Resistor, Deposited Carbon, $2\mathrm{k}\Omega$, $0.2\mathrm{W}$, 5% NH 13466 AlA1R31 Potentiometer, $2\mathrm{k}\Omega$, $0.1\mathrm{W}$, 20% NV 12167 AlA1R32 Resistor, Deposited Carbon, $2\mathrm{k}\Omega$, $0.2\mathrm{W}$, 5% NH 13466 AlA1R31 AlA1R33 Resistor, Deposited Carbon, $2\mathrm{k}\Omega$, $0.2\mathrm{W}$, 5% NH 13466 AlA1R31 AlA1R34 Potentiometer, $2\mathrm{k}\Omega$, $0.2\mathrm{W}$, 20% NV 11094 AlA1R38 Potentiometer, $2\mathrm{k}\Omega$, $0.2\mathrm{W}$, 20% NV 11094 AlA1R31 AlA1R31 Resistor, Deposited Carbon, $2\mathrm{k}\Omega$, $0.2\mathrm{W}$, $0.2\mathrm$	A1A2	PC Board #2	MY 14412			
A1C2 Capacitor, Dipped Mica, $10\rho F$, $500V$ KT 12210 A1A1R30 Potentiometer, $500k\Omega$, $0.1W$, 20% NV 14438 A1R1 Potentiometer, 100Ω , $2W$, 10% NV 14592 A1A1R31 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13466 Potentiometer, 100Ω , $2W$, 10% NV 1094 A1A1R32 Potentiometer, $10k\Omega$, $0.1W$, 20% NV 11094 A1A1R33 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13478 Potentiometer, $10k\Omega$, $0.1W$, 20% NV 12167 A1A1R34 Potentiometer, $100k\Omega$, $0.1W$, 20% NV 12167 A1A1R35 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13478 Potentiometer, $100k\Omega$, $0.1W$, 20% NV 12167 A1A1R34 Potentiometer, $100k\Omega$, $0.1W$, 20% NV 12167 A1A1R35 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13478 Potentiometer, $100k\Omega$, $0.1W$, 20% NV 12167 A1A1R35 Potentiometer, $100k\Omega$, $0.1W$, 20% NV 12167 A1A1R36 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13478 Potentiometer, $100k\Omega$, $0.1W$, 20% NV 12167 A1A1R36 Resistor, Deposited Carbon, $1.5k\Omega$, $0.1W$, 20% NV 12094 A1A1R36 Potentiometer, $100k\Omega$, $0.1W$, 20% NV 12095 NV 12096 A1A1R36 Resistor, Deposited Carbon, $1.5k\Omega$, $0.1W$, 20% NV 12096 NV 12096 A1A1R37 Resistor, Deposited Carbon, $1.5k\Omega$, $0.1W$, 20% NV 12096 NV 12096 A1A1V1 Potentiometer, $100k\Omega$, $0.1W$, 20% NV 12094 A1A1U1 Potentiometer, $100k\Omega$, $0.1W$, 20% NV 12096 NV 12097 A1A1C3 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A2C1 Capacitor, Ceramic Disc, $0.01\mu F$, $1000V$ KL 13502 A1A1C6 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1S2C2 Capacitor, Ceramic Disc, $0.01\mu F$, $1000V$ KL 13502 A1A1C6 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1S2C3 Capacitor, Electrolytic, $1000\mu F$, $50V$ KO 11907 A1A1C8 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A2C1 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A1C10 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A2C1 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A1C10 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A2C7 Capacitor, Electrolytic, $10\mu F$, $25V$ KO 256	A1C1	Capacitor, Variable, 0-452 ρ F	KY 11545	1		
A1R1 Protentionieter, 10026, 2W, 10% A1R12 Transformer, Power, Dual Pri/Sec, 33 and 7Vrms, 15VA A1A1R33 Resistor, Deposited Carbon, $56k\Omega$, $0.2W$, 5% NH 13478 A1A1R34 Potentiometer, $100k\Omega$, $0.1W$, 20% NV 12167 A1W1 Cable, Shielded #1 A1W2 Cable, Shielded #2 A1A1 Printed Circuit Board #1 A1A1C1 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A1C2 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A1C3 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A1C4 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A1C5 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A1C5 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A1C6 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A1C6 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A1C6 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A1C6 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A1C6 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1S2C2 Capacitor, Ceramic Disc, $0.01\mu F$, $1000V$ KL 13502 A1A1C6 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1S2C3 Capacitor, Electrolytic, $1000\mu F$, $50V$ KO 11907 A1A1C8 Capacitor, Electrolytic, $10\mu F$, $25V$ KO 256 A1A2C5 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A1C9 Capacitor, Dipped Mica, $33\rho F$, $500V$ KT 13105 A1A2C6 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A1C10 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A1C10 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A1C10 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A1C10 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A1C10 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A2C7 Capacitor, Electrolytic, $10\mu F$, $25V$ KO 256		Capacitor, Dipped Mica, 10pF, 500V				
A1A1	A1R1	Potentiometer, 100Ω , 2W, 10%	NV 14592			NH 13466
7Vrms, 15VA A1A1R34 Potentiometer, $100k\Omega$, $0.1W$, 20% NV 12167 A1W1 Cable, Shielded #1 A1W2 Cable, Shielded #2 KJ 14595 A1A1C1 Capacitor, Variable, 2.5-20 ρ F, 250V A1A1C2 Capacitor, Variable, 2.5-20 ρ F, 250V A1A1C3 Capacitor, Variable, 2.5-20 ρ F, 250V A1A1C4 Capacitor, Variable, 2.5-20 ρ F, 250V A1A1C5 Capacitor, Variable, 2.5-20 ρ F, 250V A1A1C6 Capacitor, Variable, 2.5-20 ρ F, 250V A1A1C7 Capacitor, Variable, 2.5-20 ρ F, 250V A1A1C8 Capacitor, Variable, 2.5-20 ρ F, 250V A1A1C9 Capacitor, Variable, 2.5-20 ρ F, 250V A1A1C6 Capacitor, Variable, 2.5-20 ρ F, 250V A1A1C7 Capacitor, Variable, 2.5-20 ρ F, 250V A1A1C8 Capacitor, Ceramic Disc, 0.1 μ F, 50V A1A1C9 Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 A1A1C9 Capacitor, Dipped Mica, 33 ρ F, 500V KL 14342 A1A1C10 Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 A1A1C10 Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 A1A2C7 Capacitor, Electrolytic, 10 μ F, 25V KO 556						
AlW1 Cable, Shielded #1 KJ 14594 KJ 14595 AlA1S1 Switch, Rotary, 4 sect, 4 pole, 8 pos, non-shorting Pl 14546 AlW2 Cable, Shielded #2 KJ 14595 AlA1Ul Integrated Circuit, Transistor/Diode Array, MO 13296 CA3086 AlA1Cl Capacitor, Variable, 2.5-20 ρ F, 250V KY 14439 AlA1Cl Capacitor, Variable, 2.5-20 ρ F, 250V KY 14439 AlA2Cl Capacitor, Variable, 2.5-20 ρ F, 250V KY 14439 AlA2Cl Capacitor, Variable, 2.5-20 ρ F, 250V KY 14439 AlA2Cl Capacitor, Variable, 2.5-20 ρ F, 250V KY 14439 AlA2Cl Capacitor, Variable, 2.5-20 ρ F, 250V KY 14439 AlA2Cl Capacitor, Ceramic Disc, 0.01 μ F, 1000V KL 13502 AlA1Cs Capacitor, Variable, 2.5-20 ρ F, 250V KY 14439 AlS2Cl Capacitor, Ceramic Disc, 0.01 μ F, 1000V KL 13502 AlA1Cl Capacitor, Variable, 2.5-20 ρ F, 250V KY 14439 AlS2Cl Capacitor, Ceramic Disc, 0.01 μ F, 1000V KL 13502 Capacitor, Variable, 2.5-20 ρ F, 250V KY 14439 AlS2Cl Capacitor, Electrolytic, 1000 μ F, 50V KO 11907 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlSCl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Dipped Mica, 33 ρ F, 50V KT 13105 AlA2Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA1Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA2Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA2Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA2Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA2Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 AlA2Cl Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342	AIII		QG 14391			
A1A1 Printed Circuit Board #1 MY 14410 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1A2C1 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1A2C1 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1A2C1 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1A2C1 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1A2C1 Capacitor, Ceramic Disc, 0.01μ F, 1000 V KL 13502 A1A1C5 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1S2C2 Capacitor, Ceramic Disc, 0.01μ F, 1000 V KL 13502 A1A1C6 Capacitor, Variable, $2.5-20\rho$ F, 250V KY 14439 A1S2C2 Capacitor, Ceramic Disc, 0.01μ F, 1000 V KL 13502 A1A1C6 Capacitor, Variable, $2.5-20\rho$ F, 250V KY 14439 A1S2C3 Capacitor, Ceramic Disc, 0.01μ F, 1000 V KL 13502 A1A1C6 Capacitor, Ceramic Disc, 0.1μ F, 50V KC 11907 A1A1C7 Capacitor, Electrolytic, 10μ F, 25V KO 556 A1A2C5 Capacitor, Ceramic Disc, 0.1μ F, 50V KL 14342 A1A1C9 Capacitor, Dipped Mica, 33ρ F, 500V KL 14342 A1A2C7 Capacitor, Electrolytic, 10μ F, 50V KL 14342 A1A1C10 Capacitor, Ceramic Disc, 0.1μ F, 50V KL 14342 A1A2C7 Capacitor, Electrolytic, 10μ F, 50V KL 14342 A1A1C10 Capacitor, Ceramic Disc, 0.1μ F, 50V KL 14342 A1A2C7 Capacitor, Electrolytic, 10μ F, 50V KL 14342 A1A1C10 Capacitor, Ceramic Disc, 0.1μ F, 50V KL 14342 A1A2C7 Capacitor, Electrolytic, 10μ F, 25V KO 556	A 1 W/1		VI 14504			
A1A1 Printed Circuit Board #1 MY 14410 CA3086 A1A1C1 Capacitor, Variable, 2.5-20ρF, 250V KY 14439 A1A1C2 Capacitor, Variable, 2.5-20ρF, 250V KY 14439 CA3086 A1A1C3 Capacitor, Variable, 2.5-20ρF, 250V KY 14439 A1A2 Printed Circuit Board #2 MY 14412 A1A1C4 Capacitor, Variable, 2.5-20ρF, 250V KY 14439 A1A2C1 Capacitor, Ceramic Disc, 0.01μF, 1000V KL 13502 A1A1C5 Capacitor, Variable, 2.5-20ρF, 250V KY 14439 A1S2C2 Capacitor, Ceramic Disc, 0.01μF, 1000V KL 13502 A1A1C6 Capacitor, Variable, 2.5-20ρF, 250V KY 14439 A1S2C2 Capacitor, Ceramic Disc, 0.01μF, 1000V KL 13502 A1A1C6 Capacitor, Variable, 2.5-20ρF, 250V KY 14439 A1S2C3 Capacitor, Electrolytic, 1000μF, 50V KO 11907 A1A1C7 Capacitor, Ceramic Disc, 0.1μF, 50V KL 14342 A1S2C4 Capacitor, Electrolytic, 1000μF, 50V KO 11907 A1A1C8 Capacitor, Electrolytic, 10μF, 25V KO 556 A1A2C5 Capacitor, Ceramic Disc, 0.1μF, 50V KL 14342 A1A1C9 Capacitor, Dipped Mica, 33ρF, 500V KT 13105 A1A2C6 Capacitor, Ceramic Disc, 0.1μF, 50V KL 14342 A1A1C10 Capacitor, Ceramic Disc, 0.1μF, 50V KL 14342 A1A2C7 Capacitor, Electrolytic, 10μF, 25V KO 556						
A1A1C1 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1A1C2 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 CA3086 A1A1C3 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1A2 Printed Circuit, Board #2 MY 14412 A1A1C4 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1A2C1 Capacitor, Ceramic Disc, 0.01 μ F, 1000V KL 13502 A1A1C5 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1S2C2 Capacitor, Ceramic Disc, 0.01 μ F, 1000V KL 13502 A1A1C6 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1S2C2 Capacitor, Ceramic Disc, 0.01 μ F, 1000V KL 13502 A1A1C7 Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 A1S2C4 Capacitor, Electrolytic, 1000 μ F, 50V KO 11907 A1A1C8 Capacitor, Electrolytic, 10 μ F, 25V KO 556 A1A2C5 Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 A1A1C9 Capacitor, Dipped Mica, 33 ρ F, 500V KL 14342 A1A1C10 Capacitor, Ceramic Disc, 0.1 μ F, 50V KL 14342 A1A2C7 Capacitor, Electrolytic, 10 μ F, 25V KO 556				Alalul	, , , , , , , , , , , , , , , , , , , ,	MO 13296
A1A1C2 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A1C3 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A1C4 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A2C1 Capacitor, Ceramic Disc, $0.01\mu F$, $1000V$ KL 13502 A1A1C5 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1A2C1 Capacitor, Ceramic Disc, $0.01\mu F$, $1000V$ KL 13502 A1A1C6 Capacitor, Variable, $2.5-20\rho F$, $250V$ KY 14439 A1S2C2 Capacitor, Ceramic Disc, $0.01\mu F$, $1000V$ KL 13502 A1A1C7 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KV 14439 A1S2C3 Capacitor, Electrolytic, $1000\mu F$, $50V$ KO 11907 A1A1C7 Capacitor, Ceramic Disc, $0.1\mu F$, $50V$ KL 14342 A1A1C8 Capacitor, Electrolytic, $10\mu F$, $25V$ KO $250V$ KO $250V$ KD $250V$ K				A1A1112		MO 13296
A1A1C3 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1A2 Printed Circuit Board #2 MY 14412 A1A1C4 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1A2C1 Capacitor, Ceramic Disc, 0.01μ F, 1000 V KL 13502 A1A1C5 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1S2C2 Capacitor, Ceramic Disc, 0.01μ F, 1000 V KL 13502 A1A1C6 Capacitor, Variable, 2.5- 20ρ F, 250V KY 14439 A1S2C3 Capacitor, Electrolytic, 1000μ F, 50V KO 11907 A1A1C7 Capacitor, Ceramic Disc, 0.1μ F, 50V KL 14342 A1S2C4 Capacitor, Electrolytic, 1000μ F, 50V KO 11907 A1A1C8 Capacitor, Electrolytic, 10μ F, 25V KO 556 A1A2C5 Capacitor, Ceramic Disc, 0.1μ F, 50V KL 14342 A1A1C9 Capacitor, Dipped Mica, 33ρ F, 500V KL 14342 A1A2C6 Capacitor, Ceramic Disc, 0.1μ F, 50V KL 14342 A1A1C10 Capacitor, Ceramic Disc, 0.1μ F, 50V KL 14342 A1A2C7 Capacitor, Electrolytic, 10μ F, 25V KO 556		•		MIMICE		110 13270
A1A1C4 Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439 A1A2C1 Capacitor, Ceramic Disc, 0.01μ F, $1000V$ KL 13502 A1A1C5 Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439 A1S2C2 Capacitor, Ceramic Disc, 0.01μ F, $1000V$ KL 13502 A1A1C6 Capacitor, Variable, $2.5-20\rho$ F, $250V$ KY 14439 A1S2C3 Capacitor, Electrolytic, 1000μ F, $50V$ KO 11907 A1A1C7 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 A1A1C8 Capacitor, Electrolytic, 10μ F, $25V$ KO $250V$ KO $250V$ KD $250V$				A1A2	Printed Circuit Board #2	MY 14412
A1A1C6 Capacitor, Variable, $2.5\text{-}20\rho\text{F}$, 250V KY 14439 A1S2C3 Capacitor, Electrolytic, $1000\mu\text{F}$, 50V KO 11907 A1A1C7 Capacitor, Ceramic Disc, $0.1\mu\text{F}$, 50V KL 14342 A1A2C5 Capacitor, Electrolytic, $1000\mu\text{F}$, 50V KO 11907 Capacitor, Electrolytic, $10\mu\text{F}$, 25V KO 556 A1A2C5 Capacitor, Ceramic Disc, $0.1\mu\text{F}$, 50V KL 14342 A1A1C9 Capacitor, Dipped Mica, $33\rho\text{F}$, 500V KT 13105 A1A2C6 Capacitor, Ceramic Disc, $0.1\mu\text{F}$, 50V KL 14342 A1A1C10 Capacitor, Ceramic Disc, $0.1\mu\text{F}$, 50V KL 14342 A1A2C7 Capacitor, Electrolytic, $10\mu\text{F}$, 25V KO 556				A1A2C1	Capacitor, Ceramic Disc, 0.01µF, 1000V	
A1A1C7 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 A1S2C4 Capacitor, Electrolytic, 1000μ F, $50V$ KO 11907 A1A1C8 Capacitor, Electrolytic, 10μ F, $25V$ KO 556 A1A2C5 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 A1A1C9 Capacitor, Dipped Mica, 33ρ F, $500V$ KT 13105 A1A2C6 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 A1A1C10 Capacitor, Ceramic Disc, 0.1μ F, $50V$ KL 14342 A1A2C7 Capacitor, Electrolytic, 10μ F, $25V$ KO 256						
A1A1C8 Capacitor, Electrolytic, 10μ F, 25V KO 556 A1A2C5 Capacitor, Ceramic Disc, 0.1μ F, 50V KL 14342 A1A1C9 Capacitor, Dipped Mica, 33ρ F, 500V KT 13105 A1A2C6 Capacitor, Ceramic Disc, 0.1μ F, 50V KL 14342 A1A1C10 Capacitor, Ceramic Disc, 0.1μ F, 50V KL 14342 A1A2C7 Capacitor, Electrolytic, 10μ F, 25V KO 556						
A1A1C9 Capacitor, Dipped Mica, 33ρF, 500V KT 13105 A1A2C6 Capacitor, Ceramic Disc, 0.1μF, 50V KL 14342 A1A1C10 Capacitor, Ceramic Disc, 0.1μF, 50V KL 14342 A1A2C7 Capacitor, Electrolytic, 10μF, 25V KO 556						
A1A1C10 Capacitor, Ceramic Disc, 0.1µF, 50V KL 14342 A1A2C7 Capacitor, Electrolytic, 10µF, 25V KO 556		• • • • • • • • • • • • • • • • • • • •				
A1A1C11 Capacitor, Ceramic Disc, 0.1µF, 50V KL 14342 A1A2C9 Capacitor, Ceramic Disc, 0.1µF, 50V KL 14342	A1A1C10	Capacitor, Ceramic Disc, 0.1µF, 50V			Capacitor, Electrolytic, 10µF, 25V	
	A1A1C11	Capacitor, Ceramic Disc, 0.1μF, 50V	KL 14342	A1A2C9	Capacitor, Ceramic Disc, 0.1µF, 50V	KL 14342

REPLACEMENT PARTS LIST

AlaCard Capacitor, Caramic Disc, Olig. F. 1909 K. 14942 AlaCard Capacitor, Caramic Disc, Olig. F. 1909 K. 14942 AlaCard Capacitor, Caramic Disc, Olig. F. 1909 K. 14942 AlaCard Capacitor, Caramic Disc, Olig. F. 1909 K. 14942 AlaCard Capacitor, Caramic Disc, Olig. F. 1909 K. 14942 AlaCard Capacitor, Caramic Disc, Olig. F. 1909 K. 14942 AlaCard Capacitor, Caramic Disc, Olif. F. 1909 K. 14942 AlaCard Capacitor, Caramic Disc, Olif. F. 1909 K. 14942 AlaCard Capacitor, Caramic Disc, Olif. F. 1909 K. 14942 AlaCard Capacitor, Caramic Disc, Olif. F. 1909 K. 14942 AlaCard Capacitor, Caramic Disc, Olif. F. 1909 K. 13943 AlaCard Capacitor, Caramic Disc, Olif. F. 1909 K. 13943 AlaCard Capacitor, Part Mylur, Ol. 2107, F. 1909 K. 13943 AlaCard Capacitor, Part Mylur, Ol. 2107, F. 1909 K. 13953 AlaCard Capacitor, Part Mylur, Ol. 2107, F. 1909 K. 14942 AlaCard Capacitor, Part Mylur, Ol. 1907 K. 14942 AlaCard Capacitor, Caramic Disc, Oligin Capacitor, Caramic Disc, Oligin Capacitor, Carami	Symbol	Description	P/N	Symbol	Description	P/N
Al A2CI Capacitor, Cramic Disc, O. 1917, 80V KT 1103 Al A2CIS Capacitor, Cramic Disc, O. 1917, 80V KT 1804 Al A2CIS Capacitor, Cramic Disc, O. 1917, 80V KT	2010	Canacitor, Variable, 10-40pF, 250V	KY 11992	A1A2R37	Resistor, Deposited Carbon, $33k\Omega$, 0.2W, 5%	NH 14433
Al A/2012 Capacitor, Carmine Disc, (0.1µF, 500V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 500V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 500V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 500V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 500V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 500V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 500V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 500V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 500V KL 541 4424 Al A/2014 Capacitor, Paper Mylar, (0.0µF, 500V KL 541 4424 Al A/2014 Capacitor, Paper Mylar, (0.0µF, 100V KL 541 4424 Al A/2014 Capacitor, Paper Mylar, (0.0µF, 100V KL 541 4424 Al A/2014 Capacitor, Paper Mylar, (0.0µF, 100V KL 541 4424 Al A/2014 Capacitor, Paper Mylar, (0.0µF, 100V KL 541 4424 Al A/2014 Capacitor, Paper Mylar, (0.0µF, 100V KL 541 4424 Al A/2014 Capacitor, Paper Mylar, (0.0µF, 100V KL 541 4424 Al A/2014 Capacitor, Paper Mylar, (0.0µF, 100V KL 541 4424 Al A/2014 Capacitor, Paper Mylar, (0.0µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capacitor, Carmine Disc, (0.1µF, 100V KL 541 4424 Al A/2014 Capac	ALA2CIU	Capacitor, Ceramic Disc, 0.1µF, 50V	KL 14342	A1A2R38	•	NH 14432
Al Al Al Carl	A1A2C12	Capacitor, Dipped Mica, 330pF, 500V	KT 11803	A1A2R39		NV 11094
AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V K. I. 1342 AlaCard Capacitor, Ceramic Disc, O. J.P. 50V AlaCard AlaCard AlaCard Capacitor, Ceramic Disc, O. J.P. 50V AlaCard AlaCard AlaCard Capacitor, Ceramic Disc, O. J.P. 50V AlaCard Al	A1A2C13	Capacitor, Ceramic Disc, 0.001µF, 1000V	KL 561	A1A2R40		NH 11028
Al A2CI Capacitor, Ceramic Disc, O. 14, 1949 Al A2CI Capacitor, Electrolytic, O. 14, 1949 Al A2CI Capacitor, Paper Mylar, O. 14, 1909 Al A2CI Capacitor, Ceramic Disc, O. 14, 50V Al A2CI Capa	A1A2C14	Capacitor, Ceramic Disc, 0.1µF, 50V				NH 14435
Al A2CI Capacitor, Caramic Disc, O.J.Pf., 50V Al A2CI Capacitor, Caramic Disc, O.J.Pf., 50V Al A2CI Capacitor, Caramic Disc, O.J.Pf., 50V K 1492 Al A2CI Capacitor, Caramic Disc, O.J.Pf., 50V K 1492 Al A2CI Capacitor, Paper Mylar, O.D.Pf., 100V K 13859 Al A2CI Capacitor, Paper Mylar, O.D.Pf., 100V K 13859 Al A2CI Capacitor, Paper Mylar, O.D.Pf., 100V K 13859 Al A2CI Capacitor, Paper Mylar, O.D.Pf., 100V K 13859 Al A2CI Capacitor, Paper Mylar, O.D.Pf., 100V K 13859 Al A2CI Capacitor, Paper Mylar, O.D.Pf., 100V K 13859 Al A2CI Capacitor, Paper Mylar, O.D.Pf., 100V K 13859 Al A2CI Capacitor, Paper Mylar, O.D.Pf., 100V K 13859 Al A2CI Capacitor, Caramic Disc, O.D.Pf., 50V K 14942 Al A2CI Capacitor, Caramic Disc, O.D.Pf., 50V K 14942 Al A2CI Capacitor, Caramic Disc, O.D.Pf., 50V K 14942 Al A2CI Capacitor, Caramic Disc, O.D.Pf., 50V K 14942 Al A2CI Capacitor, Caramic Disc, O.D.Pf., 50V K 14942 Al A2CI Capacitor, Caramic Disc, O.D.Pf., 50V K 14942 Al A2CI Capacitor, Caramic Disc, O.D.Pf., 50V K 14942 Al A2CI Capacitor, Caramic Disc, O.D.Pf., 50V K 14942 Al A2CI Capacitor, Caramic Disc, O.D.Pf., 50V Al A2CI Al A2CI Capacitor, Caramic Disc, O.D.Pf., 50V Al A2CI Al A2CI Capacitor, Caramic Disc, O.D.Pf., 50V	A1A2C15					
Al A2C12 Capacitor, Ceramic Disc, O.J.P., 50V Al A2C12 Capacitor, Ceramic Disc, O.J.P., 50V Al A2C12 Capacitor, Page Mylar, O.J.P., 100V V. 1859 Al A2C12 Capacitor, Page Mylar, O.J.P., 100V V. 1859 Al A2C12 Capacitor, Page Mylar, O.J.P., 100V V. 1859 Al A2C12 Capacitor, Page Mylar, O.J.P., 100V V. 1859 Al A2C12 Capacitor, Page Mylar, O.J.P., 100V V. 1859 Al A2C12 Capacitor, Page Mylar, O.J.P., 100V V. 1859 Al A2C12 Capacitor, Page Mylar, O.J.P., 100V V. 1859 Al A2C12 Capacitor, Page Mylar, O.J.P., 50V V. 1859 Al A2C12 Capacitor, Page Mylar, O.J.P., 50V V. 1859 Al A2C12 Capacitor, Page Mylar, O.J.P., 50V V. 1859 Al A2C12 Capacitor, Page Mylar, O.J.P., 50V V. 1859 Al A2C12 Capacitor, Ceramic Disc, O.J.P., 50V V. 1859 Al A2C12 Capacitor, Ceramic Disc, O.J.P., 50V V. 1850 Al A2C12 Capacitor, Ceramic Disc, O.J	AlA2C16					NV 11094
Al Al Al Care Al Capacitor, Paper Mylar, 0.2 μ. F. 100	A1A2C17					
Al A2C21 Capacitor, Paper Mylar, 00 Jaf., 100V KV 13859 Al A2C22 Capacitor, Electrolytic, 10µF, 100V KV 13859 Al A2C22 Capacitor, Caramic Disc, 0.1µF, 100V KV 11037 Al A2C22 Capacitor, Caramic Disc, 0.1µF, 50V KV 13859 Al A2C23 Capacitor, Caramic Disc, 0.1µF, 50V KV 14364 Al A2C24 Capacitor, Caramic Disc, 0.01µF, 50V KV 14364 Al A2C25 Capacitor, Caramic Disc, 0.01µF, 50V KV 14364 Al A2C26 Capacitor, Caramic Disc, 0.01µF, 50V KV 14364 Al A2C26 Capacitor, Caramic Disc, 0.01µF, 50V KV 14364 Al A2C27 Diode, Recriffer, 400V, 1A MV 14364 Al A2C28 Diode, Recriffer, 400V, 1A MV 14364 Al A2C28 Diode, Recriffer, 400V, 1A MV 14364 Al A2C28 Diode, Zenet, 12V, 5W MD 1996 Al A2C28 Diode, Zenet, 12V, 5W MD 1996 Al A2C28 Diode, Recriffer, 5V, 350mW MD 1997 Al A2C28 Diode, Recriffer, 5V, 350mW MD 1997 Al A2C28 Diode, Recriffer, 70V, 250mW MD 1997 Al A2C28	A1A2C18					
AlA2C21 Capacitor, Eager Mylar, 0.01µF, 100V AlA2C22 Capacitor, Polyster, 0.1µF, 100V AlA2C3 Capacitor, Ceramic Disc, 0.01µF, 50V AlA2C3 Capacitor, Ceram	A1A2C19			1		
Al AA222 Capacitor, Ceramic Disc, 0.14F, 100V KT 1105 Al AA224 Capacitor, Ceramic Disc, 0.14F, 100V KT 1105 Al AA224 Capacitor, Ceramic Disc, 0.14F, 100V KT 1105 Al AA226 Capacitor, Ceramic Disc, 0.14F, 100V KT 1105 Al AA226 Capacitor, Ceramic Disc, 0.14F, 100V KT 1105 Al AA226 Capacitor, Ceramic Disc, 0.14F, 100V KT 1103 Al AA2276 Capacitor, Ceramic Disc, 0.14F, 100V KT 1103 Al AA2276 Capacitor, Ceramic Disc, 0.14F, 100V LA Al AA228 Capacitor, Ceramic Disc, 0.14F, 100V LA	A1A2C20	Capacitor, Paper Mylar, 0.01µF, 100V				
AJA2C23 Capacitor, Polyester, 0.1µF, 100V KT 11105 AJA2C24 Capacitor, Ceramic Disc, 0.005µF, 600V KI, 11432 AJA2C25 Capacitor, Ceramic Disc, 0.005µF, 600V KI, 11103 AJA2C26 Capacitor, Ceramic Disc, 0.005µF, 600V KI, 11103 AJA2C26 Capacitor, Ceramic Disc, 0.005µF, 600V KI, 11103 AJA2C26 Capacitor, Ceramic Disc, 0.005µF, 600V KI, 11432 AJA2C26 Diode, Rectifier, 400V, 1A MD 12068 AJA2C27 Diode, Rectifier, 400V, 1A MD 12068 AJA2C27 Diode, Rectifier, 400V, 1A MD 12068 AJA2C27 Diode, Rectifier, 400V, 25m MD 1494 AJA2C28 Diode, Rectifier, 50V, 350m MD 1494 AJA2C28 Diode, Rectifier, 75V, 350m MD 1494 AJA2C28 Diode, Rectifier, 75V, 350m MD 1494 AJA2C29 Diode, Rectifier, 75V, 350m MD 1495 AJA2C29 Diode, Rectifier, 75V, 350m MD 1494 AJA2C29 Diode, Recti						
Al A2C23 Capacitor, Ceramic Disc, 0.01μF, 50V KI, 14342 Al A2C25 Capacitor, Ceramic Disc, 0.01μF, 50V KI, 14342 Al A2C26 Capacitor, Ceramic Disc, 0.01μF, 50V KI, 14342 Al A2C26 Capacitor, Ceramic Disc, 0.01μF, 50V KI, 14342 Al A2C26 Capacitor, Ceramic Disc, 0.01μF, 50V KI, 14342 Al A2C26 Capacitor, Ceramic Disc, 0.01μF, 50V KI, 14342 Al A2C26 Capacitor, Ceramic Disc, 0.01μF, 50V KI, 14342 Al A2C26 Capacitor, Ceramic Disc, 0.01μF, 50V KI, 14342 Al A2C26 Capacitor, Ceramic Disc, 0.01μF, 50V KI, 14342 Al A2C26 Capacitor, Ceramic Disc, 0.01μF, 50V MI 13636 Al A2C26 Diode, Rectifier, 400V, 1A MI 12068 Al A2C26 Diode, Zener, 12V, 5W MI 13604 Al A2C26 Diode, Zener, 12V, 5W MI 13604 Al A2C26 Diode, Zener, 12V, 5W MI 13604 Al A2C27 Diode, Rectifier, 5V, 350mW MI 1397 Al A2C27 Diode, Rectifier, 5V, 350mW MI 1390 Al A2C27	A1A2C22			i		
Al A2C23 Capacitor, Ceramic Duc., 0.095µF, 6.00V Al A2C16 Diode, Rectifier, 4.00V, 1.4 MD 12068 Al A2C18 Diode, Rectifier, 5.0V, 25m MD 11996 Al A2C18 Diode, Rectifier, 5.0V, 25m MD 11996 Al A2C18 Diode, Rectifier, 5.0V, 25m MD 1997 Al A2C10 Diode, Rectifier, 5.0V, 25m MD 1997 Al A2C11 Diode, Rectifier, 5.0V, 35m MD 1997 Al A2C1 Diode, Rectifier, 5.0V, 35m MD 1998 Al A2C1 Diode, Rectifier, 5.0V, 35m MD 1998 Al A2C2 Diode, Rectifier, 5.0V, 35m MD 1996 Al A2C						
Al A C Al C Capacitor, Ceramic Disc. 0, 1µF, 50V K. 1, 434 Al A C Al C A						
Al AZCRI Diode, Rectifier, 400V, 1A MD 12068 Al AZRS Diode, Rectifier, 17V, 5W MD 12068 Al AZRS Diode, Rectifier, 17V, 5W MD 12068 Al AZRS Diode, Rectifier, 50V, 25mA MD 1496 Al AZRS Diode, Rectifier, 50V, 25mA MD 1496 Al AZRS Diode, Rectifier, 75V, 350mW MD 1997 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13458 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13458 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13458 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13458 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13458 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13458 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13458 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13458 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13458 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13458 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13458 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13458 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13459 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13450 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13450 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13450 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13450 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13450 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13450 Al AZRI Resistor, Deposited Carbon, 100K2, 0.2W, 5% NH 13450						
Al AZCR2 Diode, Rectifier, 400V, 1A MD 12068 Al AZR5 Resistor, Deposited Carbon, 19κΩ, 0.2W, 5% NH 13604 Al AZK5 Diode, Zener, 12V, 5W MD 1996 Al AZR5 Resistor, Deposited Carbon, 19κΩ, 0.2W, 5% NH 13604 Al AZK5 Diode, Zener, 12V, 5W MD 1996 Al AZK5 Diode, Zener, 12V, 5W MD 1997 Al AZK1 Diode, Rectifier, 75V, 350mW MD 1997 Al AZK1 Diode						
Al AZCR3 Diode, Rettifier, 400V, 1A MD 12068 Al AZCR5 Diode, Rettifier, 740V, 1A MD 12068 Al AZCR5 Diode, Rettifier, 75V, 350mW MD 11996 Al AZCR6 Diode, Zener, 12V, 5W MD 1996 Al AZCR8 Diode, Rettifier, 75V, 350mW MD 1997 Al AZCR1 Diode, Retti		Diode, Rectifier,4	MD 12068		Potentiometer, 100Ω , $0.1W$, 20%	
Al AZCR Diode, Rectifier, 400V, 1A MD 11996 Al AZCR Diode, Zener, 12V, 5W MD 11996 Al AZCR Diode, Rectifier, 50V, 25mA MD 1455 Al AZCR Diode, Rectifier, 5V, 350mW MD 11997 Al AZCRI Diode, Rectifier, 7SV, 350mW MD 14555 Al AZRI Recistor, Wirewound, 10012, 8W, 10% NR 11500 Al AZRI Resistor, Deposited Carbon, 100kΩ, 0.2W, 5% Al AZRI Al AZRI Resistor, Deposited Carbon, 100kΩ, 0.2W, 5% Al AZRI Al AZRI Resistor, Deposited Carbon, 100kΩ, 0.2W, 5% NR 13466 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% Al AZRI Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13466 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 13467 Al AZRI Resistor, Deposited Carbon, 120kQ, 0.2W, 5% NR 1			MD 12068	A1A2R58	Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5%	
Al AZCRS Diode, Zener. 12V. 5W MD 11996 Al AZCRS Diode, Zener. 12V. 5W MD 11996 Al AZCRS Diode, Rectifier, 50V. 25mA MD 1494 Al AZCRI Diode, Rectifier, 75V. 350mW MD 11997 Al AZRI Fusc, Slow Blow, 125V. 0.2A ML 1490 Al AZRI Fusc, Slow Blow, 125V. 0.2A ML 1490 Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AZCRI Al AZRI Resistor, Deposited Carbon, 100KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 100KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL AZRI Al AZRI Resistor, Deposited Carbon, 120KD, 0.2W, 5% AL				A1A2R59	Resistor, Deposited Carbon, 39Ω , 0.2W, 5%	NH 13604
Al AZCR6 Diode, Zener, 12V, 5W MD 11996	A1A2CR5	Diode, Zener, 12V, 5W	MD 11996	A1A2U1		
A1 A2CR9 Diode, Rectifier, 75V, 350mW MD 11997 A2 A1 A2CR1 Diode, Rectifier, 75V, 350mW MD 11997 A2 A1 A2CR1 Diode, Rectifier, 75V, 350mW MD 11997 A2 A1 A2CR1 Diode, Rectifier, 75V, 350mW MD 11997 A2 A2CR2 Diode, Rectifier, 75V, 350mW MD 11997 A						
Al A2CR1 Diode, Rectifier, 75V, 350mW MD 11997 A2CR Al A2CR1 Diode, Rectifier, 75V, 250mW MD 14555 A2CR2 Diode, Rectifier, 75V, 250mW MD 14555 A2CR3 Diode, Rectifier, 75V, 250mW MD 14555 A2CR3 Diode, Rectifier, 75V, 350mW MD 11997 A2CR2 Diode, Rectifier, 75V, 350mW MD 11997 A2CR3 A2CR3 Diode, Rectifier, 75V, 350mW MD 11997 A2CR3 Diode, Rectifier, 75V, 350mW MD 11					•	MO 13347
A1A2CR11 Diode, Rectifier, 75V, 350mW MD 11997						MO 13347
A1A2CR12 Diode, Rectifier, 79V, 250mW D11957 A1A2CR13 Diode, Rectifier, 75V, 350mW D11997 A1A2P1 Fuse, Slow-Blow, 125V, 0.2A ML 11999 A1A2P1 Resistor, Wirewound, 100\(\text{2}\), 8, 8, 10\(\text{8}\) MN 11530 A1A2R12 Resistor, Wirewound, 100\(\text{2}\), 8, 8, 8, 1179 A1A2R2 Resistor, Wirewound, 100\(\text{2}\), 8, 8, 1179 A1A2R3 Resistor, Wirewound, 100\(\text{2}\), 20\(\text{8}\), 7, 8, 1179 A1A2R4 Resistor, Wirewound, 100\(\text{2}\), 20\(\text{8}\), 8, 11345 A1A2R5 Resistor, Wirewound, 100\(\text{2}\), 20\(\text{8}\), 8, 11345 A1A2R6 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R8 Resistor, Deposited Carbon, 15\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R13 Resistor, Deposited Carbon, 15\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R15 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R16 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R17 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R18 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R16 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R17 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R18 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R18 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R17 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R18 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R19 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R19 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R17 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R18 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R19 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A1A2R19 Resistor, Deposited Carbon, 27\(\text{2}\), 0, 2W, 5\(\text{9}\) A					•	
A1A2R1 Diode, Rectifier, 75V, 350mW MD 11997 A1A2R1 Fuse, Slow-Blow, 125V, 0.2A ML 11999 A1A2R1 Fuse, Slow-Blow, 125V, 0.2A ML 11999 A1A2R2 Fuse, Slow-Blow, 125V, 0.2A ML 11999 A1A2R2 Fuse, Slow-Blow, 125V, 0.2A ML 11999 A1A2R3 Resistor, Wirewound, 10012, 8W, 10% A1A2R4 Resistor, Deposited Carbon, 220kΩ, 0.2W, 5% MR 11436 A1A2R4 Resistor, Deposited Carbon, 100kΩ, 0.2W, 5% MR 11436 A1A2R4 Resistor, Deposited Carbon, 100kΩ, 0.2W, 5% MR 11436 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13460 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 120kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% MR 13461 A1A2R1 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% MR 13461 A1A2R2 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% MR 13461 A1A2R2 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% MR 13461 A1A2R2 Resistor, Deposited Carbon, 1						
Ala2PT Fuse, Slow Blow, 250V, 0.1A (AE model) ML 1418 A2CR2 Diode, Rectifier, 75V, 350mW MD 11997 Ala2R1 Resistor, Wirewound, 100Ω, 8W, 10% NR 11709 Ala2R2 Resistor, Wirewound, 50Ω, 8W, 5% NR 11709 Ala2R3 Resistor, Wirewound, 50Ω, 8W, 5% NR 11709 Ala2R4 Resistor, Wirewound, 50Ω, 8W, 5% NR 11709 Ala2R4 Resistor, Wirewound, 50Ω, 8W, 5% NR 11709 Ala2R4 Resistor, Wirewound, 100Ω, 0.2W, 5% NR 11436 Ala2R5 Resistor, Deposited Carbon, 220Ω, 0.2W, 5% NR 13460 Ala2R6 Resistor, Deposited Carbon, 1MΩ, 0.2W, 5% NR 13483 Ala2R8 Resistor, Deposited Carbon, 1MΩ, 0.2W, 5% NR 13464 Ala2R8 Resistor, Deposited Carbon, 12Ω, 0.2W, 5% NR 13464 Ala2R1 Resistor, Deposited Carbon, 82Ω, 0.2W, 5% NR 13467 Ala2R1 Resistor, Deposited Carbon, 22ΩΩ, 0.2W, 5% NR 13467 Ala2R13 Resistor, Deposited Carbon, 22ΩΩ, 0.2W, 5% NR 13467 Ala2R15 Resistor, Deposited Carbon, 22ΩΩ, 0.2W, 5% NR 13467 Ala2R16 Resistor, Deposited Carbon, 22ΩΩ, 0.2W, 5% NR 13467 Ala2R17 Resistor, Deposited Carbon, 22ΩΩ, 0.2W, 5% NR 13468 Ala2R18 Resistor, Deposited Carbon, 22ΩΩ, 0.2W, 5% NR 13467 Ala2R18 Resistor, Deposited Carbon, 22ΩΩ, 0.2W, 5% NR 13467 Ala2R17 Resistor, Deposited Carbon, 22ΩΩ, 0.2W, 5% NR 13467 Ala2R18 Resistor, Deposited Carbon, 22ΩΩ, 0.2W, 5% NR 13467 Ala2R18 Resistor, Deposited Carbon, 22ΩΩ, 0.2W, 5% NR 13467 Ala2R19 Resistor, Deposited Carbon, 22ΩΩ, 0.2W, 5% NR 13467 Ala2R17 Resistor, Deposited Carbon, 100Ω, 0.2W, 5% NR 13467 Ala2R18 Resistor, Deposited Carbon, 100Ω, 0.2W, 5% NR 13467 Ala2R19 Resistor, Deposited Carbon, 100Ω, 0.2W, 5% NR 13467 Ala2R19 Resistor, Deposited Carbon, 100Ω, 0.2W, 5% NR 13467 Ala2R19 Resistor, Deposited Carbon, 100Ω, 0.2W, 5% NR 13467 Ala2R19 Resistor, Deposited Carbon, 100Ω, 0.2W, 5% NR 13467 Ala2R19 Resistor, Deposited Carbon, 100Ω, 0.2W, 5% NR 13467 Ala2R19 Resistor, Deposited						
A1A2PI Fuse, Slow Blow, 250V, 0.14 (AE model) A1A2PI Fuse, Slow Blow, 250V, 0.14 (AE model) A1A2PI Resistor, Wirewound, 50Q2, 8W, 5W NR 11709 A1A2PI Resistor, Wirewound, 50Q2, 8W, 5W NR 11709 A1A2PI Resistor, Deposited Carbon, 220kΩ, 0.2W, 5W NH 14356 A1A2PI Resistor, Deposited Carbon, 100kΩ, 0.2W, 5W NH 14366 A1A2PI Resistor, Deposited Carbon, 100kΩ, 0.2W, 5W NH 14366 A1A2PI Resistor, Deposited Carbon, 100kΩ, 0.2W, 5W NH 14366 A1A2PI Resistor, Deposited Carbon, 10kΩ, 0.2W, 5W NH 14366 A1A2PI Resistor, Deposited Carbon, 1kΩ, 0.2W, 5W NH 14366 A1A2PI Resistor, Deposited Carbon, 1kΩ, 0.2W, 5W NH 14366 A1A2PI Resistor, Deposited Carbon, 2xQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 2xQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 2xQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 2xQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 2xQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 0kQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 10kQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 10kQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 10kQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 10kQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 10kQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 10kQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 10kQ, 0.2W, 5W NH 13473 A1A2PI Resistor, Deposited Carbon, 10kQ, 0.2W, 5W NH 13473 A1A2PI Resistor, Deposited Carbon, 15kQ, 0.2W, 5W NH 13467 A1A2PI Resistor, Deposited Carbon, 15kQ, 0.2W, 5W NH 13475 A1A2PI Resistor, Deposited Carbon, 15kQ, 0.2W, 5W NH 13475 A1A2PI Resistor, Deposited Carbon, 15kQ, 0.2W, 5W NH 13475 A1A2PI Resistor, Deposited Carbon, 15kQ, 0.2W, 5W NH 13475 A1A2PI Resistor, Deposited Carbon, 15kQ, 0.2W, 5W NH 13475 A1A2PI Resistor, Deposited Carbon, 15kQ, 0.2W, 5W NH 13475 A1A2PI Resist						
Ala2R1			ML 14418			
Ala2R2 Resistor, Wirewound, 50\(\text{2}\), 8\(\text{N}\), 9\(\text{N}\) Ala2R3 Resistor, Deposited Carbon, 10\(\text{0}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala2R4 Resistor, Deposited Carbon, 10\(\text{0}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R6 Resistor, Deposited Carbon, 1\(\text{M}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R6 Resistor, Deposited Carbon, 1\(\text{M}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala2R7 Resistor, Deposited Carbon, 1\(\text{M}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R6 Resistor, Deposited Carbon, 1\(\text{M}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R6 Resistor, Deposited Carbon, 1\(\text{M}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R6 Resistor, Deposited Carbon, 1\(\text{K}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R7 Resistor, Deposited Carbon, 1\(\text{K}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R7 Resistor, Deposited Carbon, 1\(\text{K}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R7 Resistor, Deposited Carbon, 2\(\text{L}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R1 Resistor, Deposited Carbon, 2\(\text{L}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R7 Resistor, Deposited Carbon, 2\(\text{L}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R7 Resistor, Deposited Carbon, 2\(\text{L}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R8 Resistor, Deposited Carbon, 2\(\text{L}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R1 Resistor, Deposited Carbon, 1\(\text{L}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R1 Resistor, Deposited Carbon, 1\(\text{L}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R1 Resistor, Deposited Carbon, 1\(\text{L}\), 0.2\(\text{N}\), 5\(\text{N}\) Ala3R1			NR 11530			
Ala2R3 Resistor, Deposited Carbon, 220k12, 0.2W, 5% NH 13456 Ala2R4 Resistor, Deposited Carbon, 100kΩ, 0.2W, 5% NH 13480 Ala2R6 Resistor, Deposited Carbon, 11MΩ, 0.2W, 5% NH 13481 Ala2R8 Resistor, Deposited Carbon, 12MΩ, 0.2W, 5% NH 13483 Ala2R8 Resistor, Deposited Carbon, 12MΩ, 0.2W, 5% NH 13483 Ala2R8 Resistor, Deposited Carbon, 12MΩ, 0.2W, 5% NH 13464 Ala2R1 Resistor, Deposited Carbon, 12MΩ, 0.2W, 5% NH 13467 Ala2R1 Resistor, Deposited Carbon, 22MΩ, 0.2W, 5% NH 13467 Ala2R1 Resistor, Deposited Carbon, 22MΩ, 0.2W, 5% NH 13467 Ala2R1 Resistor, Deposited Carbon, 22MΩ, 0.2W, 5% NH 13467 Ala2R1 Resistor, Deposited Carbon, 22MΩ, 0.2W, 5% NH 13467 Ala2R1 Resistor, Deposited Carbon, 22MΩ, 0.2W, 5% NH 13467 Ala2R1 Resistor, Deposited Carbon, 22MΩ, 0.2W, 5% NH 13467 Ala2R1 Resistor, Deposited Carbon, 22MΩ, 0.2W, 5% NH 13467 Ala2R18 Resistor, Deposited Carbon, 22MΩ, 0.2W, 5% NH 13467 Ala2R18 Resistor, Deposited Carbon, 22MΩ, 0.2W, 5% NH 13467 Ala2R18 Resistor, Deposited Carbon, 10MΩ, 0.2W, 5% NH 13467 Ala2R18 Resistor, Deposited Carbon, 10MΩ, 0.2W, 5% NH 13467 Ala2R19 Resistor, Deposited Carbon, 10MΩ, 0.2W, 5% NH 13467 Ala2R19 Resistor, Deposited Carbon, 10MΩ, 0.2W, 5% NH 13467 Ala2R19 Resistor, Deposited Carbon, 10MΩ, 0.2W, 5% NH 13473 Ala2R21 Resistor, Deposited Carbon, 10MΩ, 0.2W, 5% NH 13475 Ala2R21 Resistor, Deposited Carbon, 15MQ, 0.2W, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, 15MQ, 0.2W, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, 15MQ, 0.2W, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, 15MQ, 0.2W, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, 15MQ, 0.2W, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, 15MQ, 0.2W, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, 15MQ, 0.2W, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, 15MQ, 0.2W, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, 15MQ, 0.2W, 5% NH 13475 Ala2R28	A1A2R2		NR 11709			
Al A2RR A Resistor, Deposited Carbon, 100xΩ, 0.2W, 5% NH 13480 A1A2RS Resistor, Deposited Carbon, 47Ω, 0.2W, 5% NH 13456 A1A2RS Resistor, Deposited Carbon, 14ΩΩ, 0.2W, 5% NH 13456 A1A2RS Resistor, Deposited Carbon, 120xΩ, 0.2W, 5% NH 13456 A1A2RS Resistor, Deposited Carbon, 120xΩ, 0.2W, 5% NH 13456 A1A2RS Resistor, Deposited Carbon, 120xΩ, 0.2W, 5% NH 13464 A1A2RI Resistor, Deposited Carbon, 12xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 22xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 22xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 22xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 22xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 22xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 22xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 22xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13467 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13475 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13475 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13475 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13464 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13475 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13475 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13475 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13475 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13475 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13475 A1A2RI Resistor, Deposited Carbon, 10xΩ, 0.2W, 5% NH 13475 A1A2RI Resistor, Deposited Carbon	A1A2R3	•				
Ala2R6 Resistor, Deposited Carbon, 17Ω, 0.2W, 5% NH 13483 Ala2R7 Resistor, Deposited Carbon, 1MΩ, 0.2W, 5% NH 13483 Ala2R8 Resistor, Deposited Carbon, 1MΩ, 0.2W, 5% NH 13484 Ala2R9 Resistor, Deposited Carbon, 1RΩ, 0.2W, 5% NH 13484 Ala2R10 Resistor, Deposited Carbon, 1RΩ, 0.2W, 5% NH 13467 Ala2R11 Resistor, Deposited Carbon, 2RΩ, 0.2W, 5% NH 13467 Ala2R13 Resistor, Deposited Carbon, 2RΩ, 0.2W, 5% NH 13467 Ala2R13 Resistor, Deposited Carbon, 2RΩ, 0.2W, 5% NH 13467 Ala2R14 Resistor, Deposited Carbon, 2RΩ, 0.2W, 5% NH 13467 Ala2R15 Resistor, Deposited Carbon, 2RΩ, 0.2W, 5% NH 13467 Ala2R16 Resistor, Deposited Carbon, 2RΩ, 0.2W, 5% NH 13467 Ala2R17 Resistor, Deposited Carbon, 2RΩ, 0.2W, 5% NH 13467 Ala2R18 Resistor, Deposited Carbon, 2RΩ, 0.2W, 5% NH 13467 Ala2R18 Resistor, Deposited Carbon, 2RΩ, 0.2W, 5% NH 13467 Ala2R18 Resistor, Deposited Carbon, 2RQ, 0.2W, 5% NH 13467 Ala2R18 Resistor, Deposited Carbon, 10KΩ, 0.2W, 5% NH 13467 Ala2R18 Resistor, Deposited Carbon, 10KΩ, 0.2W, 5% NH 13467 Ala2R19 Resistor, Deposited Carbon, 10KΩ, 0.2W, 5% NH 13467 Ala2R19 Resistor, Deposited Carbon, 10KΩ, 0.2W, 5% NH 13467 Ala2R20 Resistor, Deposited Carbon, 10KΩ, 0.2W, 5% NH 13467 Ala2R21 Resistor, Deposited Carbon, 10KΩ, 0.2W, 5% NH 13467 Ala2R21 Resistor, Deposited Carbon, 10KΩ, 0.2W, 5% NH 13467 Ala2R21 Resistor, Deposited Carbon, 10KΩ, 0.2W, 5% NH 13467 Ala2R21 Resistor, Deposited Carbon, 10KΩ, 0.2W, 5% NH 13467 Ala2R22 Resistor, Deposited Carbon, 10KΩ, 0.2W, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, 15KΩ, 0.2W, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, 15KΩ, 0.2W, 5% NH 13467 Ala2R29 Resistor, Deposited Carbon, 15KΩ, 0.2W, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, 15KΩ, 0.2W, 5% NH 13475 Ala2R29 Resistor, Deposited Carbon, 15KΩ, 0.2W, 5% NH 13475 Ala2R29 Resistor, Deposited Carbon, 15KΩ, 0.2W, 5% NH 13475 Ala2R29 Resistor, Deposited Carbon, 15KΩ, 0.2W, 5% NH 13475 Ala2R29 Resistor, Deposited Carbon, 15KΩ, 0.2W, 5% NH 13475 Ala2R29 Resistor, Deposited Carbon, 15KΩ, 0.2W, 5% NH 13475 Ala2R29 Resistor, Deposi					_	
A1A2R0 Resistor, Deposited Carbon, 1M Ω , 0.2W, 5% NH 13483 A2R3 Resistor, Deposited Carbon, 1M Ω , 0.2W, 5% NH 13486 A1A2R1 Resistor, Deposited Carbon, 12 Ω , 0.2W, 5% NH 13467 A1A2R1 Resistor, Deposited Carbon, 2.2 Ω , 0.2W, 5% NH 13468 A1A2R1 Resistor, Deposited Carbon, 2.2 Ω , 0.2W, 5% NH 13468 A1A2R1 Resistor, Deposited Carbon, 2.2 Ω , 0.2W, 5% NH 13468 A1A2R1 Resistor, Deposited Carbon, 2.2 Ω , 0.2W, 5% NH 13467 A1A2R1 Resistor, Deposited Carbon, 2.2 Ω , 0.2W, 5% NH 13467 A1A2R1 Resistor, Deposited Carbon, 2.2 Ω , 0.2W, 5% NH 13467 A1A2R1 Resistor, Deposited Carbon, 2.2 Ω , 0.2W, 5% NH 13467 A1A2R1 Resistor, Deposited Carbon, 10 Ω , 0.2W, 5% NH 13467 A1A2R1 Resistor, Deposited Carbon, 10 Ω , 0.2W, 5% NH 13467 A1A2R1 Resistor, Deposited Carbon, 10 Ω , 0.2W, 5% NH 13467 A1A2R1 Resistor, Deposited Carbon, 10 Ω , 0.2W, 5% NH 13468 A1A2R2 Resistor, Deposited Carbon, 10 Ω , 0.2W, 5% NH 13467 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13468 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13469 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13464 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13468 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13469 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13475 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13476 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13476 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13464 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13464 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13464 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13464 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13476 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13476 A1A2R2 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13464 A1A2R3 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13464 A1A2R3 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13464 A1A2R3 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13464 A1A2R3 Resistor, Deposited Carbon, 15 Ω , 0.2W, 5% NH 13476		•			•	
A1A2R8 Resistor, Deposited Carbon, $1 \times \Omega$, 0.2W , 5W NH 14356 A1A2R9 Resistor, Deposited Carbon, $1 \times \Omega$, 0.2W , 5W NH 13464 A2R6 Resistor, Deposited Carbon, $1 \times \Omega$, 0.2W , 5W NH 13467 A1A2R11 Resistor, Deposited Carbon, $2.2 \times \Omega$, 0.2W , 5W NH 13467 A1A2R12 Resistor, Deposited Carbon, $2.2 \times \Omega$, 0.2W , 5W NH 13467 A1A2R13 Resistor, Deposited Carbon, $2.2 \times \Omega$, 0.2W , 5W NH 13467 A1A2R14 Resistor, Deposited Carbon, $2.2 \times \Omega$, 0.2W , 5W NH 13468 A1A2R15 Resistor, Deposited Carbon, $2.2 \times \Omega$, 0.2W , 5W NH 13468 A1A2R16 Resistor, Deposited Carbon, $2.2 \times \Omega$, 0.2W , 5W NH 13467 A1A2R16 Resistor, Deposited Carbon, $2.2 \times \Omega$, 0.2W , 5W NH 13460 A1A2R17 Resistor, Deposited Carbon, $2.2 \times \Omega$, 0.2W , 5W NH 13460 A1A2R17 Resistor, Deposited Carbon, $2.2 \times \Omega$, 0.2W , 5W NH 13460 A1A2R17 Resistor, Deposited Carbon, $2.2 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13473 A1A2R18 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13473 A1A2R19 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13473 A1A2R20 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13476 A1A2R22 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13475 A1A2R21 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13475 A1A2R21 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13475 A1A2R28 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13475 A1A2R28 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13475 A1A2R28 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13475 A1A2R28 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13475 A1A2R28 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13475 A1A2R28 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13475 A1A2R28 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13475 A1A2R28 Resistor, Deposited Carbon, $1.0 \times \Omega$, $0.2 \times 0.5 \text{W}$ NH 13476 A1A2R28 Resistor, Deposited Carbon,		•		A2R3		
A1A2R19 Resistor, Deposited Carbon, $1k\Omega$, $0.2w$, 5% NH 13464 A1A2R10 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 A1A2R11 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 A1A2R12 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 A1A2R13 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 A1A2R14 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 A1A2R15 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 A1A2R16 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13476 A1A2R17 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13477 A1A2R24 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13477 A1A2R27 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13477 A1A2R27 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13477 A1A2R28 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13477 A1A2R27 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13477 A1A2R27 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13477 A1A2R27 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13477 A1A2R28 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13477 A1A2R29 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13476 A1A2R29 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13476 A1A2R29 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13476 A1A2R29 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13476 A1A2R29 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13476 A1A2R29 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13476 A1A2R29 Resistor, Deposited Carbon, $0.2k\Omega$, $0.2w$, 5% NH 13476 A1A2R30 Potentiometer, $0.2k\Omega$, $0.2w$,				A2R4	Resistor, Metal Film, 41.2Ω , $0.2W$, 1%	NM 14550
A1A2R10 Resistor, Deposited Carbon, 82Ω, 0.2W, 5% NH 13877 A1A2R11 Resistor, Deposited Carbon, 2.2kΩ, 0.2W, 5% NH 13467 A1A2R12 Resistor, Deposited Carbon, 2.2kΩ, 0.2W, 5% NH 13467 A1A2R13 Resistor, Deposited Carbon, 2.2kΩ, 0.2W, 5% NH 13467 A1A2R14 Resistor, Deposited Carbon, 2.2kΩ, 0.2W, 5% NH 13467 A1A2R15 Resistor, Deposited Carbon, 2.2kΩ, 0.2W, 5% NH 13467 A1A2R16 Resistor, Deposited Carbon, 2.2kΩ, 0.2W, 5% NH 13467 A1A2R17 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13467 A1A2R21 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13467 A1A2R21 Resistor, Deposited Carbon, 10kΩ, 0.2W, 5% NH 13467 A1A2R22 Resistor, Deposited Carbon, 18kΩ, 0.2W, 5% NH 13467 A1A2R22 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13467 A1A2R26 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R28 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13464 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, 15kΩ, 0.2W, 5% NH 13475		•		A2R5	Resistor, Metal Film, 41.2Ω , $0.2W$, 1%	NM 14550
A1A2R11 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2W$, 5% NH 13467 A1A2R12 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2W$, 5% NH 13468 A1A2R13 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2W$, 5% NH 13468 A1A2R14 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2W$, 5% NH 13468 A1A2R15 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2W$, 5% NH 13467 A1A2R16 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2W$, 5% NH 13467 A1A2R16 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2W$, 5% NH 13467 A1A2R17 Resistor, Deposited Carbon, $1.0k\Omega$, $0.2W$, 5% NH 13467 A1A2R18 Resistor, Deposited Carbon, $1.0k\Omega$, $0.2W$, 5% NH 13467 A1A2R18 Resistor, Deposited Carbon, $1.0k\Omega$, $0.2W$, 5% NH 13473 A1A2R19 Resistor, Deposited Carbon, $1.0k\Omega$, $0.2W$, 5% NH 13473 A1A2R21 Resistor, Deposited Carbon, $1.0k\Omega$, $0.2W$, 5% NH 13474 A1A2R21 Resistor, Deposited Carbon, $1.0k\Omega$, $0.2W$, 5% NH 13475 A1A2R22 Resistor, Deposited Carbon, $1.0k\Omega$, $0.2W$, 5% NH 13477 A1A2R21 Resistor, Deposited Carbon, $1.0k\Omega$, $0.2W$, 5% NH 13477 A1A2R21 Resistor, Deposited Carbon, $1.0k\Omega$, $0.2W$, 5% NH 13477 A1A2R22 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13475 A1A2R24 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13475 A1A2R26 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13475 A1A2R27 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13475 A1A2R28 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13476 A1A2R27 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13475 A1A2R28 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13480 A1A2R29 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13480 A1A2R31 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13475 A1A2R32 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Potentiometer, $5k\Omega$, $0.2W$, 5% NH 13480 A1A2R31 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13480 A1A2R31 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13480 A1A2R32 Resistor, Deposited Carbon, $1.5k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Potentiometer, $5k\Omega$, $0.2W$, 5% NH 1347					,	NM 14442
A1A2R12 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 A1A2R13 Resistor, Deposited Carbon, $2.7k\Omega$, $0.2w$, 5% NH 13468 A1A2R14 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13476 A1A2R15 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 A1A2R16 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 A1A2R17 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 A1A2R18 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 A1A2R17 Resistor, Deposited Carbon, $10k\Omega$, $0.2w$, 5% NH 13473 A1A2R28 Resistor, Deposited Carbon, $10k\Omega$, $0.2w$, 5% NH 13464 A1A2R20 Resistor, Deposited Carbon, $10k\Omega$, $0.2w$, 5% NH 13464 A1A2R20 Resistor, Deposited Carbon, $10k\Omega$, $0.2w$, 5% NH 13473 A1A2R21 Resistor, Deposited Carbon, $10k\Omega$, $0.2w$, 5% NH 13473 A1A2R22 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 A1A2R28 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 A1A2R28 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 A1A2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13475 A1A2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 A1A2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 A1A2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13465 A1A2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 A1A2R31 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 A1A2R31 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13465 A1A2R32 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13466 A1A2R33 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13475 A1A2R33 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH						
Ala2R13 Resistor, Deposited Carbon, $2.7k\Omega$, $0.2w$, 5% NH 13468 Ala2R14 Resistor, Deposited Carbon, $22k\Omega$, $0.2w$, 5% NH 13476 Ala2R15 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 Ala2R16 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2w$, 5% NH 13467 Ala2R17 Resistor, Deposited Carbon, $10k\Omega$, $0.2w$, 5% NH 13467 Ala2R18 Resistor, Deposited Carbon, $10k\Omega$, $0.2w$, 5% NH 13473 Ala2R18 Resistor, Deposited Carbon, $10k\Omega$, $0.2w$, 5% NH 13473 Ala2R19 Resistor, Deposited Carbon, $10k\Omega$, $0.2w$, 5% NH 13473 Ala2R21 Resistor, Deposited Carbon, $10k\Omega$, $0.2w$, 5% NH 13474 Ala2R19 Resistor, Deposited Carbon, $10k\Omega$, $0.2w$, 5% NH 13475 Ala2R22 Resistor, Deposited Carbon, $10k\Omega$, $0.2w$, 5% NH 13477 Ala2R21 Potentiometer, $25k\Omega$, $0.1W$, 25% NH 13477 Ala2R22 Resistor, Deposited Carbon, $3.3M\Omega$, $0.2w$, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, $15k\Omega$, $0.2w$, 5% NH 13475 Ala2R29 Resistor, Deposited Carbon, $15k\Omega$, $0.2w$, 5% NH 13476 Ala2R29 Resistor, Deposited Carbon, $15k\Omega$, $0.2w$, 5% NH 13475 Ala2R29 Resistor, Deposited Carbon, $15k\Omega$, $0.2w$, 5% NH 13476 Ala2R29 Resistor, Deposited Carbon, $15k\Omega$, $0.2w$, 5% NH 13476 Ala2R29 Resistor, Deposited Carbon, $15k\Omega$, $0.2w$, 5% NH 13476 Ala2R29 Resistor, Deposited Carbon, $15k\Omega$, $0.2w$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $15k\Omega$, $0.2w$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 Ala2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 Ala2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 Ala2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 Ala2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13464 Ala2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2w$, 5% NH 13475 Line C						
A1A2R14 Resistor, Deposited Carbon, $22k\Omega$, $0.2W$, 5% NH 13476 A1A2R15 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2W$, 5% NH 13467 A1A2R16 Resistor, Deposited Carbon, $27k\Omega$, $0.2W$, 5% NH 13467 A1A2R16 Resistor, Deposited Carbon, $27k\Omega$, $0.2W$, 5% NH 13467 A1A2R17 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473 A1A2R18 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473 A1A2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13473 A1A2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R32 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13476 A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13480 A1A2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R32 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13480 A1A2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13480 A1A2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A1A2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13476 A1A2R31 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R32 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R33 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R34 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R35 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R36 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R37 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 NN 11083 Resistor, D						
Ala2R15 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2W$, 5% NH 13467 Ala2R16 Resistor, Deposited Carbon, $2.2k\Omega$, $0.2W$, 5% NH 13460 Ala2R17 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13461 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473 Ala2R18 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473 Ala2R19 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13464 Ala2R20 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13467 Ala2R21 Potentiometer, $25k\Omega$, $0.1W$, 25% NH 13467 Ala2R22 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Ala2R23 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Ala2R24 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Ala2R27 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13464 Ala2R27 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Ala2R27 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13464 Ala2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 Ala2R39 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13467 Ala2R39 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13467 Ala2R39 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 Ala2R39 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 Ala2R39 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 Ala2R39 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13475 Ala2R39 Resistor, Deposited Carb		•	NH 13476			
Al A2R16 Resistor, Deposited Carbon, 20Ω , $0.2W$, 5% NH 13473 Al A2R17 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473 Al A2R18 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473 Al A2R19 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13473 Al A2R19 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13477 Al A2R20 Resistor, Deposited Carbon, 20 , 2		Resistor, Deposited Carbon, $2.2k\Omega$, $0.2W$, 5%	NH 13467			
Ala2R17 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473 Ala2R18 Resistor, Deposited Carbon, $10k\Omega$, $0.2W$, 5% NH 13473 Ala2R19 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13473 Ala2R20 Resistor, Deposited Carbon, $27k\Omega$, $0.2W$, 5% NH 13477 Ala2R21 Potentiometer, $25k\Omega$, $0.1W$, 25% NV 11037 Ala2R22 Resistor, Deposited Carbon, $3.3M\Omega$, $0.2W$, 5% NH 13475 Ala2R23 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Ala2R24 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Ala2R25 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Ala2R26 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 Ala2R28 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13483 Ala2R27 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13483 Ala2R28 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 Ala2R29 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13480 Ala2R29 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13480 Ala2R31 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 Ala2R33 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 Ala2R33 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 Ala2R34 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 Ala2R35 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 Ala2R37 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 Ala2R38 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 Ala2R37 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 Ala2R38 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 NN 1094 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 NN 1094 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 NN 1094 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 NN 1094 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13475 NN 1094 Resistor, Deposited						
A1A2R18 Resistor, Deposited Carbon, $10R32$, $0.2W$, 5% NH 13464 A1A2R20 Resistor, Deposited Carbon, $10R32$, $0.2W$, 5% NH 13464 A1A2R21 Potentiometer, $25k\Omega$, $0.1W$, 25% NN 11037 A1A2R22 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13477 A1A2R23 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R26 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R27 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R28 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A2S1 Switch, Slide, DPDT PH $12596-1$ A1A2R26 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A2S3 Switch, Slide, DPDT PH $12596-1$ A1A2R27 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13483 A2S4 Switch, Slide, DPDT PH $12596-1$ A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A2S5 Switch, Slide, DPDT PH $12596-1$ A1A2R27 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A2S5 Switch, Slide, DPDT PH $12596-1$ A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A2S1 Switch, Slide, DPDT PH $12596-1$ A1A2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A2W1 Cable, Shielded #1 KJ 14556 A1A2R30 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 11094 Lead Set, Bnana/gator KJ 14609 A1A2R31 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R33 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Dial, RF Gen FP $14740-1$ A1A2R34 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Dial, RF Gen FP $14740-1$ A1A2R35 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 NH 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 NH 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 NH 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 NH 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 NH 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 NH 13475 NH 13475 NH 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5						
A1A2R19 Resistor, Deposited Carbon, $1822, 0.24, 5\%$ NH 13477 A1A2R21 Potentiometer, $25k\Omega$, $0.1W$, 25% NV 11037 A1A2R22 Resistor, Deposited Carbon, $3.3M\Omega$, $0.2W$, 5% NH 13475 A1A2R23 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R24 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R25 Resistor, Deposited Carbon, $22k\Omega$, $0.2W$, 5% NH 13475 A1A2R26 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R27 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13483 A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A1A2R29 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13480 A1A2R30 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13480 A1A2R31 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13480 A1A2R32 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13480 A1A2R31 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13480 A1A2R32 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13480 A1A2R33 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R34 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R35 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R37 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R38 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R39 Resistor, Deposited Carbon, $18k\Omega$, $0.2W$, 5% NH 13475 A1A2R30 Resistor, Deposited						
A1A2R20 Resistor, Deposited Carbon, $2RS2$, $0.2W$, 5% NV 11037 A1A2R21 Resistor, Deposited Carbon, $3.3M\Omega$, $0.2W$, 5% NH 14431 A2R22 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 A1A2R24 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 A1A2R25 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 A1A2R34 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 A1A2R35 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 A1A2R36 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 A1A2R36 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 A1A2R36 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 A1A2R36 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 A1A2R36 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 A1A2R37 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 A1A2R37 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 NN 113475 A1A2R37 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 NN 113475 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 NN 113475 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 NN 113475 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 NN 113475 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 NN 13475 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 NN 13475 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 NN 13475 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 NH 13475 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 NH 13475 Resistor, Deposited Carbon, $1Sk\Omega$, $0.2W$, 5% NH 13475 NH 13475 Resistor, Carbon Comp, $1Sk\Omega$, $0.2W$, 5% NH 13475 NH 13475 Resistor, Carbon Comp, $1Sk\Omega$, $0.2W$, 5% NH 13475						
A1A2R21 Potentionfield, $25k\Omega$, $0.1W$, $25W$ A1A2R22 Resistor, Deposited Carbon, $3.3M\Omega$, $0.2W$, $5W$ NH 14431 A2R23 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, $5W$ NH 13475 A1A2R24 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, $5W$ NH 13476 A2S1 Switch, Slide, DPDT PH 12596-1 A1A2R25 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, $5W$ NH 13475 A2S3 Switch, Slide, DPDT PH 12596-1 A1A2R26 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, $5W$ NH 13483 A2S4 Switch, Slide, DPDT PH 12596-1 A1A2R27 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, $5W$ NH 13464 A2S5 Switch, Slide, DPDT PH 12596-1 A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, $5W$ NH 13464 A2S5 Switch, Slide, DPDT PH 12596-1 A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, $5W$ NH 13464 A2S1 Cable, Shielded #1 KJ 14556 A1A2R29 Resistor, Deposited Carbon, $100k\Omega$, $0.2W$, $5W$ NH 13480 A2W2 Cable, Shielded #2 KJ 14557 Lead Set, Phono/gator KJ 14609 Lead Set, Banana/gator KJ 1031 A1A2R32 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, $5W$ NH 13475 Line Cord $72W$ KJ 11083 A1A2R33 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, $5W$ NH 13475 A1A2R34 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, $5W$ NH 13475 A1A2R35 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, $5W$ NH 13475 Knob, 0.71 Dia FP 11741-3 A1A2R35 Resistor, Deposited Carbon, $180k\Omega$, $0.2W$, $5W$ NH 13475 Knob, 0.71 Dia Kno						
A1A2R23 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A2S1 Switch, Slide, DPDT PH 12596 -1 A1A2R24 Resistor, Deposited Carbon, $22k\Omega$, $0.2W$, 5% NH 13476 A2S2 Switch, Slide, DPDT PH 12596 -1 A1A2R25 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A2S3 Switch, Slide, DPDT PH 12596 -1 A1A2R26 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13483 A2S4 Switch, Slide, DPDT PH 12596 -1 A1A2R27 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A2S5 Switch, Slide, DPDT PH 12596 -1 A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A2S5 Switch, Slide, DPDT PH 12596 -1 A2S9 Switch, Slide, DPDT PH 12596 -1 A2S9 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A2S5 Switch, Slide, DPDT PH 12596 -1 A2S9 Switch, Slide				A2R18	Resistor, Carbon Comp, $470k\Omega$, $0.5W$, 5%	
Ala2R24 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Ala2R35 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Ala2R36 Resistor, Deposited Carbon, 18Ω , $0.2W$, 5% NH 13483 Ala2R37 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13483 Ala2R38 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13484 Ala2R36 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 Ala2R37 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 Ala2R37 Resistor, Deposited Carbon, $100k\Omega$, $0.2W$, 5% NH 13480 Ala2R38 Resistor, Deposited Carbon, $100k\Omega$, $0.2W$, 5% NH 13480 Ala2R39 Resistor, Deposited Carbon, $100k\Omega$, $0.2W$, 5% NH 13480 Ala2R31 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13472 Lead Set, Phono/gator KJ 14609 Lead Set, Banana/gator KJ 1031 Ala2R38 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Dial, RF Gen FP 14395-1. Ala2R37 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Nh 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Nh 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Nh 13475 Nh 13475 Nh 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Nh				A2S1	Switch, Slide, DPDT	PH 12596-1
A1A2R25 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R36 Resistor, Deposited Carbon, $1M\Omega$, $0.2W$, 5% NH 13483 A1A2R37 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13483 A1A2R37 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A1A2R38 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A1A2R39 Resistor, Deposited Carbon, $100k\Omega$, $0.2W$, 5% NH 13480 A1A2R31 Resistor, Deposited Carbon, $8.2k\Omega$, $0.2W$, 5% NH 13472 Lead Set, Phono/gator KJ 14609 Lead Set, Banana/gator KJ 1031 Line Cord $72''$ KJ 11083 A1A2R37 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R37 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R37 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R37 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Nh 13				A2S2	Switch, Slide, DPDT	PH 12596-1
A1A2R26 Resistor, Deposited Carbon, $1M\Omega$, $0.2W$, 5% NH 13483 A1A2R36 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A1A2R27 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A1A2R39 Resistor, Deposited Carbon, $100k\Omega$, $0.2W$, 5% NH 13480 A1A2R30 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 11094 A1A2R31 Resistor, Deposited Carbon, $8.2k\Omega$, $0.2W$, 5% NH 13472 Lead Set, Phono/gator KJ 14609 Lead Set, Banana/gator KJ 1031 Line Cord 72" KJ 11083 A1A2R33 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R34 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 A1A2R35 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Knob, 0.71 Dia FP 11741-3 Knob, Skt				A2S3	Switch, Slide, DPDT	
A1A2R28 Resistor, Deposited Carbon, $1k\Omega$, $0.2W$, 5% NH 13464 A1A2R29 Resistor, Deposited Carbon, $100k\Omega$, $0.2W$, 5% NH 13480 A1A2R30 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 11094 Lead Set, Phono/gator KJ 14609 A1A2R31 Resistor, Deposited Carbon, $8.2k\Omega$, $0.2W$, 5% NH 13475 A1A2R32 Resistor, Deposited Carbon, $22k\Omega$, $0.2W$, 5% NH 13475 A1A2R34 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13476 A1A2R35 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 NH 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 NH 13475 NH 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 NH 13475 Nh 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Nh 1	A1A2R26	Resistor, Deposited Carbon, $1M\Omega$, $0.2W$, 5%				
A1A2R39 Resistor, Deposited Carbon, $100k\Omega$, $0.2W$, 5% NH 13480 A1A2R30 Potentiometer, $5k\Omega$, $0.1W$, 20% NV 11094 Lead Set, Phono/gator KJ 14609 A1A2R31 Resistor, Deposited Carbon, $8.2k\Omega$, $0.2W$, 5% NH 13475 A1A2R33 Resistor, Deposited Carbon, $22k\Omega$, $0.2W$, 5% NH 13476 A1A2R34 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 NH 13475 A1A2R35 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 NH 13475 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Nh 13						
A1A2R30 Potentiometer, $5k \Omega$, $0.1W$, 20% NV 11094 Lead Set, Phono/gator KJ 14609 A1A2R31 Resistor, Deposited Carbon, $8.2k \Omega$, $0.2W$, 5% NH 13472 A1A2R32 Resistor, Deposited Carbon, $15k \Omega$, $0.2W$, 5% NH 13475 A1A2R33 Resistor, Deposited Carbon, $22k \Omega$, $0.2W$, 5% NH 13476 A1A2R34 Resistor, Deposited Carbon, $15k \Omega$, $0.2W$, 5% NH 13475 A1A2R35 Resistor, Deposited Carbon, $15k \Omega$, $0.2W$, 5% NH 13475 A1A2R35 Resistor, Deposited Carbon, $180k \Omega$, $0.2W$, 5% NH 14432 Knob, Skt FP 11740						
A1A2R31 Resistor, Deposited Carbon, $8.2k\Omega$, $0.2W$, 5% NH 13472 Lead Set, Banana/gator KJ 1031 A1A2R32 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Line Cord $72''$ KJ 11083 Pial, RF Gen FP 14395-1. A1A2R34 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Knob, 0.71 Dia FP 11741-3 A1A2R35 Resistor, Deposited Carbon, $180k\Omega$, $0.2W$, 5% NH 14432 Knob, Skt FP 11740		•		A2W2		
A1A2R32 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Line Cord $72''$ KJ 11083 A1A2R33 Resistor, Deposited Carbon, $22k\Omega$, $0.2W$, 5% NH 13476 Dial, RF Gen FP 14395-1. A1A2R34 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Knob, 0.71 Diales FP 11741-3 Knob, Skt FP 11740						
A1A2R33 Resistor, Deposited Carbon, $22k\Omega$, $0.2W$, 5% NH 13476 Dial, RF Gen FP 14395-1. A1A2R34 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Resistor, Deposited Carbon, $180k\Omega$, $0.2W$, 5% NH 14432 Knob, Skt FP 11740						
A1A2R34 Resistor, Deposited Carbon, $15k\Omega$, $0.2W$, 5% NH 13475 Knob, 0.71 Dia FP 11741-3 A1A2R35 Resistor, Deposited Carbon, $180k\Omega$, $0.2W$, 5% NH 14432 Knob, Skt FP 11740						
A1A2R35 Resistor, Deposited Carbon, 180kΩ, 0.2W, 5% NH 14432 Knob, Skt FP 11740						
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